CONSTRUCTION NEWS

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Miscellaneous.

Locks and dams, Pittsburg, Pa.
Caissons, piers. etc., Milwaukee, Wis.
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RAILWAYS.

BALTIMORE & OHIO R. R. CO.—This company has accepted an option for the extension of the Paw Paw branch and have forwarded a draft for payment. This branch will cross Paw Paw, W. Va., run through Rivesville and reach the mines of the Parker Run Coal & Coke Co. Right-of-way amounting to $25,000 has already been purchased. A. M. Kinsman, Baltimore, Md., is Ch. Engr.

BOSTON & MAINE R. R.—Charles S. Mellen, Act. Pres. of the road, is considering plans for the electrification of the Hoosic tunnel and the heavy approach grades. The work will involve $1,000,000, including motive power. The Acting President may be addressed at New Haven, Conn.

CHICAGO & NORTHWESTERN R. R. CO.—The company has completed surveys for several branches and connecting links. These lines will be of moderate cost, very little grading being required. In South Dakota a line is projected from Belle Fourche, Butte County, down the Belle Fourche to Newell. Another line from Gettysburg, southerly through Oneida and joining a branch of the Northwestern, at Blunt. From Oneida a road running easterly to Hitchcock is contemplated. Another connecting line from Doland to Iroquois, will be about 40 miles long. Two links are contemplated in Wisconsin, which will give the Northwestern a new line across the state. A new road from Sparta to Wyville, about 23 miles, will give a line from La Crosse to Necedah. From that point a line 141 miles long through Clyman is planned. This will connect with the existing tracks of the Northwestern. The funds for this construction are available from the sale of $30,000,000 stock last year. E. C. Carter, Chicago, Ill., is Ch. Engr.; and D. Rounsville, Clyman, Wis., is Div. Engr.

GRANT R. R. CO.—Announcement has been made at Bloomington, Wis., that this company has been organised and will build a line from Woodman, Wis., through Patch Grove and Mount Hope to Bloomington, a distance of 20 miles. These townships have voted to furnish $130,000 bonds to help finance the project. Connection will be made with the Chicago, Milwaukee & St. Paul R. R. at Woodman. William T. Leighton, Bloomington, Wis., is Pres.

HUDSON BAY RY.—The first sod was turned Sept. 6 at the Pas Mission, Canada, by Hon. Geo. P. Graham, Minister of Railways and Canals. This is at the end of the branch of the Canadian Northern near Saskerain Lake. The line will extend northeasterly to Hudson Bay, having its terminus either at Ft. Churchill or Port Nelson. Noted Dec. 23, 1909.

LATON & WESTERN R. R. CO.—Bids will be received at the office of the company, Laton, Cal., until Sept. 25, for the construction of about 200 lin. ft. of pile bridging and about 50 small lumber culverts. Plans and specifications may be seen at the office of the company. S. F. Cochran is Engr.

LOUISVILLE & NASHVILLE R. R.—A contract has been awarded to FURTWANGLER & SMITH, Birmingham, Ala., for the construction of ten miles of new track extending from Corduroy on the Selma branch of that road to the plant of the Vanderburg Lumber Co., in Monroe County. The contract includes grading and bridging and the cost of the work will be about $70,000. W. H. Courtenay, Louisville, Ky., is Ch. Engr.

NEW YORK, NEW HAVEN & HARTFORD R. R. CO.—A contract has been awarded to the NEW ENGLAND CONSTRUCTION CO., 274 Main St., Springfield, Mass., for double tracking, grading and masonry on the line from Warren, R. I., to Fall River, Mass. This will cost approximately $150,000. Edward Gagel, New Haven, Conn., is Ch. Engr.

*PANAMA.—See item under U. S. Possessions: Track materials.

PINE BLUFF & NORTHERN RY. CO.—We are officially advised that no contracts will be let this fall for the Learcy extension. Noted June 16.

SPOKANE & BRITISH COLUMBIA RY.—A contract has been awarded to L. M. RICE & CO., Seattle, Wash., to build an extension to the Kettle Valley lines from Rock Creek to Bull Creek on the fork of the Kettle River, a distance of 35 miles. F. M. Holland, Republic, Wash., is Gen. Mgr.

ELECTRIC RAILWAYS.

HARTFORD, CONN.—The contract for constructing a new trolley line between this city and Norwich has been awarded by the Norwich, Colchester & Hartford Traction Co. to AHERN BROS., Norwich, Conn. The contract is for about 40 miles of road. The proposed line extends through Glastonbury, Marlboro, Colchester and Salem into the city of Norwich.

LONG BRANCH, N. J.—The Jersey Central Traction Co. contemplates the extension of its line from Long Branch north through Monmouth Beach, Galilee and Low Moor to Sea Bright. Geo. J. Brown, Keyport, is Gen. Mgr.

ERIE, PA.—The Buffalo & Lake Erie Traction Co. has obtained permission from the city authorities of Erie, Pa., to lay its tracks on East Twelfth St., from the city limits and on Franklin Ave. to the new plant of the Pennsylvania General Electric Co. Noted Aug. 25, under Buffalo, N. Y.

HAGERSTOWN, MD.—Citizens of Back Creek Valley, Berkleley County, are planing to build a trolley road through that section. J. B. Clary, Hedgesville, is interested.

KENTUCKY.—The Cincinnati, Louisville, Lexington & Maysville Traction Co. expects to start work on the section from Covington, Ky., (across the Ohio River from Cincinnati) southerly to Owenton, 40 miles, early in 1911. The plans of the company include the completion of this line into Lexington and an east and west line from Maysville, Mason County to Louisville. This line, about 120 miles long, will connect with the north and south line at Dry Ridge in Grant County. W. T. S. Blackburn, Dry Ridge, is Pres., and the Reliance Engr. Co., Cincinati, is doing the engineering work.

CLEVELAND, OHIO.—The American Subway Co., Cleveland, was incorporated recently with an authorized capital of $200,000, to construct and operate a subway for the transportation of passengers and freight in that city. The incorporators were A. B. DuPont, John N. Stockwell, Jr., Fred C. Alber, E. C. Hibbs and C. A. Nau.

RAPID RIVER, MICH.—A survey for an electric line is being made by D. A. Brotherton to connect Rapid River with Gladston. This is about 10 miles and will be a continuation of the Escanaba Electric St. Ry. Co. J. K. Stack, Escanaba, Mich., is Pres.

ILLINOIS.—The Springfield & Central Illinois Traction Co., is planning to build two lines. A line is projected from Springfield south through Pawnee, Morrisonville, Hillsboro, Donnellson, Greenville, Beaver Creek and Carlyle to Centralia in Marion county. Another line is planned that will run from East St. Louis to Granite City, Edwardsville, crossing the first mentioned line at Greenville, thence through Vandalia, Louisville and Olney to Mt. Carmel. J. A. Smith, 300 Security Bldg., St. Louis, is Pres. and Ch. Engr.

MILWAUKEE, WIS.—The Wisconsin state railroad commission has isued a certificate of convenience and necessity to the Milwaukee Western Electric Ry. Co. to build an electric line between Fox Lake and Beaver Dam, a distance of about ten miles. Val. Zimmerman, Milwaukee, is Pres. and C. A. Chapman, 1537 Marquette Bldg., Chicago, is Ch. Engr.

KANSAS CITY, MO.—Press despatches are to the effect that the St. Louis & Kansas City Electric Ry. have let the contracts for the Missouri River bridges at Arrowrock and St. Charles to the TOLEDO BRIDGE CO. Toledo, O. These contracts involve about $1,150,000. The line will traverse the state. From Kansas City to Arrowrock it will run south of the Missouri River. From this crossing it will run to St. Charles and thence direct to St. Louis. A. L. Roberts, Kansas City, is interested.

SPRINGFIELD, MO.—A charter has been granted to the Springfield & Western R. R. Co. for an electric line from Springfield to Carthage and Joplin, and a branch line from Paris Springs through Mount Vernon to Monett and Pierce City, a total distance of about 100 miles. The capital stock is placed at $2,000,000. The preliminary survey is to be made at once. The incorporators are, H. D. Mackay, I. N. Smith, J. I. Woodfiill, J. P. McCammon, M. M. Hollenback, all residents of Springfield, Mo. H. D. Mackay is Pres. and M. M. Hollenback, Ch. Engr.

BRYAN, TEX.—The Bryan-College Interurban Co., which operates an electric line between Bryan and College, is planning to extend its road to the Brazos river bottom, connecting with several small towns and traversing a rich farming district. The company is now preparing to extend its line over the streets of Bryan and to run a loop line around the outskirts of the city. O. E. Gammill, Mgr.

*PANAMA.—See item under U. S. Possessions: Track materials.

LIGHT AND POWER PLANTS.

(**Denotes that this work is advertised in Engineering News.*)

*SKOWHEGAN, ME.—Bids will be received by the Skowhegan Water Power Co. until noon, Sept. 29, for building a concrete dam across the north channel of the Kennebec River at Skowhegan. C. S. Humphreys is Hydraulic Engr., Madison, Mo.; F. A. Nolin, Secy., Skowhegan Water Power Co., Skowhegan.

BOSTON, MASS.—Officials of the Boston & Maine R. R. Co. have confirmed a report that the electrification of the Hoosac Tunnel would be one of the first improvements of the system to be started by Charles S. Mellen, as Acting Pres. of the road. Engineers have been at work on the details involved, and it is stated that nearly $1,000,000 will be spent for the change, including the cost of electric locomotives. When the changes are completed both passenger and freight trains will be taken through Hoosac Mountain by electric power from Tunnel Station on the east to North Adams, and possibly Williamstown, on the west side. J. P. Snow is Ch. Engr., Boston & Maine R. R. Co., Boston.

PITTSFIELD, MASS.—The Berkshire St. Railway Co., Pittsfield, will soon build a brick auxiliary power station in Cheshire, to be 20 × 40 ft. and one story high. It will be equipped with 5,000-KW. in rotary converters. This is part of the company's plan to rearrange its power system and the contract for this work has been awarded to FRED T. LEY & CO., 307 Main St., Springfield, Mass.

NEW BRITAIN, CONN.—Preparations are being made by the Housatonic Power Co. to extend its transmission lines from Gaffney's Corner to Ibell's Corner to supply the residents of that section with electricity for lamps. The company also will extend its system in Newington from the Children's Home on Cedar St. to the Tuberculosis Hospital at Ridge Road.

NEW YORK, N. Y.—Bids will be received until 11 a. m., Sept. 27, by Cyrus C. Miller, Pres. Boro. of Bronx, for furnishing all labor, material, apparatus and appliances necessary for installing a complete lighting system in the Municipal Building, Boro. of The Bronx, situated at Third Ave. and Tremont Ave., Boro of the Bronx.

Bids are asked by the Board of Health until 10 a. m., Sept. 28, for furnishing and delivering electric supplies and materials, as required, to the Tuberculosis Sanitorium, Otisville, N. Y., Department of Health, City of New York.

*ALLENTOWN, N. J.—Bids are asked by Charles S. Joiner, Boro. Clerk, until 8 p. m., Oct. 10, for constructing a municipal electric lighting plant. The work contemplated consists in furnishing and installing one 25-KW., d. c., 3-wire generator, 250 volts; one 30-HP. internal combustion engine; one 15-ampere, 8-hour storage battery; 2¾ miles transmission lines; street lights, switch board, shafting and equipment within the power-house. A. Robinson is Mayor; W. W. Young is Consult. Engr., 220 Broadway, New York, and Drexel Bldg., Philadelphia, Pa.

WOODBINE, N. J.—Plans are being prepared by Stearn & Castor, Archs., Stephen Girard Bldg., Philadelphia, Pa., for the equipment for the power plant to be built for the Baron de Hirsch School at Woodbine, N. J.

JERSEY CITY, N. J.—From private plans a power-house will be erected by L. O. Koven & Bros., adjoining the plant on the Paterson Plank Road. The building will be of brick and steel construction, one story in height and will measure 50 × 75 ft. The plans are ready for estimates. The cost of the building will be $25,000.

CHARLESTON, S. C.—The Charleston Consolidated Railway & Lighting Co. is asking for bids for the construction of a generator house, boiler and engine room to be erected on foundations furnished by the company at its gas plant at Charlotte and Washington Sts. W. W. Fuller is Elec. Engr.

ATLANTA, GA.—See item under Water Supply—Irrigation.

LAKELAND, FLA.—Bids will be asked about Nov. 1 for extensions and improvements to the electric light and water plants. The cost of the work is estimated at about $40,000. H. L. Swatts is City Clerk.

BIRMINGHAM, ALA.—The Coosa River Electric Power Co. has applied to the City Council for a 30-year franchise to supply electricity for lamps, heat and motors in Birmingham. The power plant of the company is to be located at Ten Island Shoals on the Coosa River. The company is to begin work on the system before Jan. 1, 1913, and to complete it within three years.

YOUNGSTOWN, OHIO.—The contract for installing an electric plant to supply electricity for the court-house and jail of Mahoning County has been awarded to the BRUCE MACBETH CO., of Cleveland, Ohio. The plant will have an output of 300 HP. and will cost about $31,000.

BEREA, OHIO.—Bids are asked by O. R. Stone, Clerk of the Trustees of Public Affairs of the Village of Berea, until noon, Sept. 24, for furnishing material, construction and installation of machinery at the municipal electric light plant, as follows: One 325-HP. engine, for direct connection to a 250-KW. generator, one 250-KVA. generator, one 150-KVA. generator, one 75-KVA. generator and switchboard, in accordance with plans and specifications, which will be furnished on application to the clerk.

RICHMOND, IND.—Alvord & Burdick, Engrs., 140 Dearborn St., Chicago, Ill., are preparing plans and specifications for three 125-HP. tubular boilers for the water plant at Richmond, Ind., H. A. Dill, Supt.

SOUTH WHITLEY, IND.—The Town Board has awarded the contract for the installation of a 150-KW. generator in the municipal electric light plant to the WESTINGHOUSE ELECTRIC & MFG. CO., Pittsburgh, Pa., at $3,800.

TERRE HAUTE, IND.—An ordinance has been introduced in the City Council favoring the proposition to establish a municipal electric light plant at a cost of about $800,000. A report in regard to establishing a municipal electric plant has been submitted to the Council by George C. Morgan, Elec. Engr., of Chicago, Ill.

BREMEN, IND.—Bids are asked until 11 a. m., Sept. 29, by the Board of Trustees of Bremen, for constructing a boiler plant at Bremen. The Electro Mechanical Engineering Co., Manhattan Bldg., Chicago, Ill., is Engr. Separate bids also will be received at the same time and place for portions of said construction work, as follows: Portion No. 1—Boiler plant, including separator, heater, boiler feed pump and necessary piping and fittings. Portion No. 2—Concrete foundation for boilers. Portion No. 3—Addition to present smoke stack. T. Frank Knoblock is Town Clerk.

CADILLAC, MICH.—Bids are asked until Sept. 27 by George Johnston, City Clerk, for repairs to the Cadillac water and light plant, which was damaged by fire recently. The cost of the work is estimated at from $6,000 to $8,000. R. E. Elsner, of Cadillac, is Engr.

GRAND RAPIDS, MICH.—The Board of Public Works has awarded the contract for furnishing and installing turbo-generators, condensers and exciters for the municipal electric light plant to the ALLIS-CHALMERS CO., of Milwaukee, Wis., at $28,220.

BATAVIA, ILL.—C. A. Chapman & Co., Engrs., 204 Dearborn St., Chicago, are receiving estimates for piping for the city power-house at Batavia, Ill.

LYNDON, ILL.—The Sterling-Moline Traction Co., Sterling, Ill., is considering plans for a power plant and dam to be built on the Rock River at Lyndon. A. Van Petten, Sterling, is Gen. Mgr.

CHICAGO, ILL.—F. E. Davidson, Arch., 98 Jackson Boulevard, and Patterson & Davidson, Engrs., 9 Jackson Boulevard, are preparing plans for a power-house, 160 × 300 ft., to be built at East Ravenswood Park and Berteau Ave., for the Progress Co. It is to be of reinforced-concrete construction.

N. M. Dunning, Arch., 167 Dearborn St., is receiving estimates for a 2-story power-house, 30 × 50 ft., at Claremont Ave. and Byron St., for the Selig Polyscope Co. It will be of reinforced-concrete construction with a 125-ft. smokestack.

DECATUR, ILL.—The contract for surface condensing equipment for the municipal electric light plant has been awarded to HENRY R. WORTHINGTON, 84 Vanburen St., Chicago, Ill., at $4,307.

DAVENPORT, IOWA.—Preparations are being made by the Davenport Locomotive Works for the construction of a power-house at a cost of about $30,000.

PELLA, IOWA.—See item under Water Supply—Irrigation.

ORTONVILLE, MINN.—Preparations are being made by the Minnesota River Improvement & Power Co. to begin work on the construction of the first of its reservoirs. The first of the proposed dams will be built at Big Stone Lake, where 600 HP. will be developed. The second dam will be erected near Ortonville at the lakes of Lac qui Parle and on the marsh, making a large lake 26 miles long and one mile wide. It is estimated that 8,000 HP. can be generated at the second dam. The third dam will be located at Redwood Falls, where 11,000 HP.

will be generated. Negotiations are under way for the sale of $500,000 of bonds, the proceeds to be used for the construction of the dams. The cost of the entire work is estimated at about $1,000,000. John H. Diers, of Blakeley, Minn., is Secy.; F. C. Irwin and W. H. Weibeler, of Belle Plaine, Minn., are among the directors.

FREMONT, NEB.—The Board of Public Works opened bids on Sept. 7 for a turbine engine at the light plant, and recommended to the Council that an engine costing $13,020 be purchased from the Allis-Chalmers Co., of Milwaukee, Wis.

LEAD, S. DAK.—The Homestake Mining Co. has awarded a contract to the WESTINGHOUSE ELECTRIC & MFG. CO., of Pittsburg, Pa., for the equipment for its power-house in Spearfish Canyon. The plant will cost about $1,000,000 and will develop more than 4,500 HP.

MISSOULA, MONT.—Preparations are being made by the Rock Creek Power & Development Co. for the construction of a power plant on Rock Creek, to cost about $445,000. Bids for construction of the plant will be asked about the middle of November. E. S. Dorman, of Missoula, is Ch. Engr.

ST. JOSEPH, MO.—The St. Joseph & Savannah Interurban Railway Co. is preparing plans for equipment for its proposed power-house, for which contract for construction was recently awarded.

AUSTIN, TEX.—The Hydraulic Properties Co., 60 Broadway, New York, is considering the proposition of taking over the contract made by J. C. Dumont with this city for the erection of a dam across the Colorado River here. M. R. Lyndon, Elec. Engr., has made an examination of the proposed site and other conditions and will make a favorable report to the company. C. Frank Doebler, Secy. of the company, has also made an investigation of the proposition. If the Hydraulic Properties Co. takes over the contract, it is probable that several changes will be made in the plans of the dam. The structure which the company will build will have fewer gates than the one planned by J. C. Dumont, and will have the power-house at one end instead of in the center of the dam. The proposed dam, which will replace the one destroyed ten years ago, will cost $1,000,000, will be 65 ft. high and will generate 5,000 HP.

PORT ANGELES, WASH.—Thomas T. Aldwell has announced that bonds have been sold for a $500,000 6,000-HP. power plant on the Elwah River, seven miles from here, for the Olympic Power & Development Co. Lighting franchises in Port Townsend, Port Angeles and for the Western Steel Co.'s plant at Irondale have been applied for.

TACOMA, WASH.—The contract for the construction of the substation in Tacoma for the Nisqually power plant was awarded, Sept. 6, by the Light and Water Commissioners to BLOWS & TUELL, 820 South A St., Tacoma, Wash., at $103,824. Hamilton F. Gronen is Ch. Engr. of the Nisqually power plant. The other bids received were Huntington & Drack, of Tacoma, $114,000, and the Sound Construction & Engineering Co., of Seattle, $123,000. The building is to be two stories high, 62 × 174 ft. The lower floor is to be on the C St. level and the main floor on the Adams St. level. The building is to be of reinforced concrete, brick and cut stone construction. Up to the main floor the construction will be of reinforced concrete and steel, and above this brick and cut stone will be used. Steel girders will arch the roof, which will be covered with green tile. The entire building will be finished complete at the price mentioned in the bid and there is also included in these figures a 20-ton traveling crane. The crane is to be placed in the building ready for operation. The substation will occupy but one-half of the block, which is city property. The remainder will be used as a material yard and in the south corner a storehouse will be built of the same design and material as the power-house.

NORTH YAKIMA, WASH.—Development of the power of Priest Rapids by the consolidation of both the Hanford and Strahorn projects and the investment of $90,000,000 on both power and irrigation projects at that point on the Columbia River is a part of the plan of the Electric Bonds & Shares Co., the Pacific Light & Power Co. and eastern capitalists, according to the Spokane "Review." According to the statement, the Strahorn project has been purchased and when power development is completed, the lines from Priest Rapids will be connected with the Yakima system at Pasco and Sunnyside. An option has been secured on the Hanford power plant, and irrigation property. It is intended to connect the Walla-Walla system with the Yakima system of transmission lines and to construct another link with the system of the Washington Water Power Co., of Spokane. Michael Earles, Seattle National Bank Bldg., Seattle, Wash., is Pres. of the Hanford Irrigation & Power Co.

PORTLAND, ORE.—The Portland Ry., Light & Power Co. will enlarge the capacity of its steam plant located near the Eastern & Western Lumber Co.'s mill. A battery of boilers and a generator will be installed. O. B. Coldwell is Elec. Engr.

TILLAMOOK, ORE.—The Tillamook Electric Light & Fuel Co. is contemplating the construction of a hydro-electric power plant at Munson Falls, nine miles south, where 250 KW. will be developed under a 570-ft. head. Plans are also being considered by the company to extend its electrical service to Bay City, seven miles distant, this year, and to Whalen, a distance of 28 miles, next year. William Spaulding is Treas. and Mgr.

REDMOND, ORE.—The City Council has granted to the Crook County Water, Power & Light Co. a **20-year franchise** to construct and operate an electric light and power plant in Redmond. It is stated that the company will commence work on the construction of the Cline Falls project, where it is estimated that 25,000 HP. can be developed. A 7,500-HP. unit will be installed at first.

SAN FRANCISCO, CAL.—Plans have been completed by the San Francisco Gas & Electric Co. for the construction of a reinforced-concrete storage battery station to be erected on Minerva St., to cost about $10,000. John A. Britton is Gen. Mgr.

LOS ANGELES, CAL.—The City Council has passed an ordinance providing for the issuing of $3,500,000 of electric light bonds, which were voted at a special election held Aug. 19, 1910. The proceeds are to be used to continue work on the aqueduct system from a point in Owen River Valley to San Fernando Valley.

MONTREAL, QUE.—At a meeting of the Board of Control held on Sept. 12, bids for street lighting were received. Five companies submitted bids but three only desired to light parts of the city. The Montreal Light, Heat & Power Co., which holds the present contract for lighting, bid as follows: For 1,650 lamps or more, $72.70 per annum; for 1,000 lamps, $80, and so on down to 500 lamps at $90.55. At present they are charging $90 per lamp. The Provincial Light & Power Co., a new concern, offered to light the streets for $54.80 per lamp, and enclosed a certified check for $25,000 to show their good faith. They propose getting their power from Cedar Rapids. The contract was held over until further investigation could be made.

YORKTON, SASK.—W. E. Skinner, Consult. Engr., Winnipeg, Man., has been engaged to take charge of the construction of the proposed municipal electric light plant for which bonds to the amount of $35,000 were recently voted.

BRIDGES.

*(*Denotes that this work is advertised in Engineering News.)*

AUGUSTA, ME.—The following bids were received Sept. 9 by the State Commissioner of Highways for constructing the superstructure of the bridge over the St. John River at Van Buren St.: Canton Bridge Co., Canton, Ohio, $51,082; Boston Bridge Works, 47 Winter St., Boston, Mass., $47,452; Pennsylvania Steel Co., Mason Bldg., Boston, $54,400; American Bridge Co., 30 Church St., New York, $50,000; Penn Bridge Co., Beaver Falls, Pa., $40,991.

BOSTON, MASS.—The contract for repairing Broadway Bridge over the Boston & Albany R. R. tracks has been awarded to GEORGE T. RENDLE 28 School St., at $9,972.

*FRAMINGHAM, MASS.—Bids will be received until 8 p. m., Sept. 28, by the Selectmen of the town of Middlesex and Commonwealth for the construction of a reinforced-concrete bridge over the Sudbury River. Plans and specifications are on file in the office of W. C. S. Chamberlin, Engr.

NEW YORK, N. Y.—See item under Streets and Roads.

ALBANY, N. Y.—F. C. Stevens, Supt. of Public Works, has awarded Barge Canal Contract No. 22 to M. FITZGERALD, of Hoosick Falls, N. Y., at $110,268. This contract provides for the construction of highway bridges and raising the existing highway bridges over the Seneca River in Onondaga and Cayuga Counties.

CONKLIN, N. Y.—The contract has been awarded by the Town Boards of Kirkwood and Conklin to the OWEGO BRIDGE CO. at $5,400 for the construction of a 2-span highway bridge across the Susquehanna River.

NORTH BRADDOCK, PA.—Plans are being prepared for the construction of a bridge across the Pennsylvania R. R. tracks at Ann St., between Braddock and North Braddock. T. A. Stewart is Boro. Engr.

YORK, PA.—The contract for reinforcing the condemned College Ave. bridge has been awarded to the HARTLEY ZIEGLER CO. at $23,278.

WILKES-BARRE, PA.—All bids for the construction of a bridge over the Susquehanna River between the Borough of Plymouth and the Township of Hanover were rejected. The bids were: Penn Bridge Co., Beaver Falls, $289,989, and with railroad attachment, $309,944; M. H. Stebbins, Wellsboro, Pa., $291,000 and $312,000; Snare & Triest Co., New York, N. Y., $318,000 and $328,000; North Eastern Construction Co., New York, N. Y., $294,444 and $306,141; Joseph Hendler & John Lehne, Wilkes-Barre, Pa., $377,103 and $388,468. The Schofield Engineering Co., 1324 Arcade Bldg., Philadelphia, are Consult. Engrs.

PITTSBURG, PA.—An ordinance has been passed by the Select Council providing that the right to erect an overhead bridge at South Main St. be given the Pittsburg & Lake Erie R. R. Co.

CAMBRIA CITY, PA.—The Grand Jury has recommended that the County Commissioners appropriate $25,000 for the construction of a bridge between Iron St. in Minersville and the intersection of Fifth Ave. and Chestnut St., Cambria City.

BALA, PA.—Bids will be received by J. Howard Supplee, Chn. Highway Com., Ardmore, Pa., until Sept. 28, for constructing a bridge over the Pennsylvania R. R. tracks at Union Ave., Bala. W. A. McIntyre, of Ardmore, Pa., is Engr.

YUKON, PA.—The contract for constructing a reinforced-concrete bridge across Sewickley Creek has been awarded to BARNES & SENFT, of Ligonier, at $6,965. Bids were received on Sept. 7.

RICHMOND, VA.—An ordinance was passed by the City Council recently providing for $350,000 for the construction of a bridge on the old Mayo site. Charles E. Bolling is City Engr.

FAIRMOUNT, W. VA.—The City Council has asked for plans for a number of small concrete and steel bridges which are to be erected within the city.

SLEEPY CREEK, W. VA.—Contract for the stone to construct three arches for the bridge of the Baltimore & Ohio R. R. has been awarded the WEAVER-KNOWLTON STONE CO., of Morgantown, W. Va., at $20,000. The contract calls for 3,500 cu. yds. of stone. A. W. Thompson is Ch. Engr., Baltimore, Md.

CLARKSBURG, W. VA.—The contract for constructing the Elk Creek bridge has been awarded the OSWEGO BRIDGE CO., of Oswego, N. Y., at $25,000. D. D. Brith is City Engr.

WILMINGTON, N. C.—The contract for constructing the bridge at Sixth St. has been awarded by the Street Commission to the SOUTHERN CONSTRUCTION CO., of Burlington, at $7,500. J. F. Gause is Clerk to the Comn.

BOYCE, LA.—Plans are being prepared for the construction of a highway bridge across the Red River.

NASHVILLE, TENN.—The Tennessee Rapid Transit Railway Co., Richard T. Wilson, Pres., will construct **six bridges in** connection with 110 miles of railway construction.

LOUISVILLE, KY.—An appropriation of $15,000 has been voted by the General Council to be used in building a bridge across Beargrass Creek at Underhill St.

COLERAIN, OHIO.—Bids will be received until noon, Sept. 26, for constructing a reinforced-concrete arch culvert over Swamp Run. Robert D. Alexander is Audr.

CLEVELAND, OHIO.—Bids will be received by the Board of Commissioners until 11 a. m., Oct. 5, for the construction of a concrete bridge on Clegue Road. Plans and specifications are on file in the office of Frank R. Lauder, County Surv.

CINCINNATI, OHIO.—Plans are being prepared for a bascule bridge to replace the old canal bridge at Liberty St. F. H. Shipley is City Engr.

CINCINNATI, OHIO.—Bids will be received by the Board of County Commissioners until noon, Sept. 30, for the construction of a concrete bridge on the Mount Hope road. Fred. Dreihs is Clerk.

SALEM, OHIO.—Bids have been opened and contract awarded to the OWL CONSTRUCTION CO. for the construction of a reinforced concrete bridge over the mill race of the Salem Flouring Mills Co. on North Commercial St. Estimated cost, $5,000.

LAGRANGE, IND.—The Commissioners of Lagrange County are preparing to ask for bids for the construction of a bridge across Fly Run River.

MARTINSVILLE, IND.—The Commissioners of Morgan County will receive bids until 2 p. m., Oct. 6, for the construction of two concrete arches. B. E. Thornburg is Audr.

MARION, IND.—Bids will be received until 2 p. m., Oct. 4, by the Commissioners of Grant County for the construction of eight concrete arches. A. Y. Stout is Audr.

LEBANON, IND.—The Commissioners of Boone County will receive bids until 10 a. m., Oct. 4, for the construction of two bridges. H. F. Herdrick is Audr.

NEWPORT, IND.—Bids will be received by the Commissioners of Vermillion County until 10 a. m., Oct. 3, for the construction of two bridges. H. T. Payne is Audr.

SHELBYVILLE, IND.—The Commissioners of Shelby County will receive bids until 10 a. m., Oct. 3, for the construction of two steel bridges and a concrete breakwater. G. B. Huntington is Audr.

SHELBYVILLE, IND.—Plans are being prepared by Perry Harris, County Surv., for constructing the Milbrook bridge across Honey Creek.

EVANSVILLE, IND.—An application has been made to the City Council by the Owensboro & Rockport Bridge & Terminal Co. for the right-of-way down the river front of the city. The company intends to build a bridge at this city.

VINCENNES, IND.—The Knox County Council has appropriated $11,000 toward building a bridge over White River. The Daviess County portion of the expense is $7,000 and the City Council made the necessary appropriation to cover the difference in the cost. C. L. V. Tucker is City Engr.

ELKHART, IND.—The Elkhart County Council has appropriated $27,800 for bridges. Bids will be asked soon for the construction of a concrete arch over Rock Run on North Main St. in Goshen. Bids will be received by the County Commissioners.

COLUMBUS, IND.—The County Council has appropriated $18,050 for the construction of several bridges.

ROCKVILLE, IND.—The Commissioners of Parke County have made appropriations for six bridges ranging from $1,500 to $9,000. Bids will soon be asked for the construction of a bridge in Florida Township, for two bridges in Adams township and two bridges in Sugar Creek Township.

TERRE HAUTE, IND.—Bids will be received until 11 a. m., Sept. 26, for constructing a concrete bridge across Prairie Creek, also for a bridge over Coal Creek. Nathan G. Wallace is Auditor.

COLUMBUS, IND.—The County Council has appropriated $18,050 for the construction of several bridges. The Commissioners will ask for bids soon for the construction of a bridge over Clifty River at Hartsville.

ROCKPORT, IND.—The County Commissioners have awarded contracts for the construction of six bridges in Spencer County, three each to the A. E. & W. CONSTRUCTION CO., of Evansville, Ind., and to the VINCENNES BRIDGE CO., Vincennes, Ind.

CROWN POINT, IND.—Bids are asked by the Commissioners of Lake County until noon, Oct. 3, for the construction of a bridge on the Pulver Road. C. A. Johnson is Audr.

INDIANAPOLIS, IND.—The County Council has appropriated $85,000 for a boulevard bridge over Fall Creek. Bids will be asked soon by the Park Commissioners. Dr. P. C. Jameson is Pres.

INDIANAPOLIS, IND.—Commissioners of Marion County will receive bids until 10 a. m., Oct. 1, for the construction of seven concrete arch culverts. H. W. Klausmann is City Engr.

DONGOLA, IND.—The Commissioners of Gibson County at Princeton, Ind., will soon ask for bids for making repairs on the iron bridge across the Patoka River. Piers are to be repaired, new floor put in and other improvements. Bids opened Oct.

GREEN CASTLE, IND.—Bids will be received until Sept. 27 by the Commissioners of Putnam County for the construction of two bridges. D. V. Moffitt is Audr.

RUSHVILLE, IND.—See item under Streets and Roads—Indiana.

*WAUTESHA, WIS.—Bids will be received by the Board of Public Works until Oct. 3 for the construction of a reinforced-concrete bridge.

SIOUX CITY, IOWA.—The Chicago, Milwaukee & St. Paul Ry. Co. has prepared plans for the construction of a concrete bridge across Perry Creek. C. F. Loweth, Chicago, Ill., is Engr. Bridges and Buildings.

MANKATO, MINN.—Plans have been completed by W. F. Brooks, Engr., for constructing a 200-ft. reinforced-concrete bridge over the Losuer River. E. Weaver is County Audr.

MINNEAPOLIS, MINN.—The Park Board is considering plans for the erection of a concrete bridge over the canal connecting Lake of Isles and Lake Calhoun. Estimated cost, $18,000.

OSWEGO, KAN.—Bids will be received by the Board of County Commissioners until noon, Oct. 3, for constructing two reinforced arch bridges. One is to be 50 ft. in length and is to span Town Creek; the other will be a 30-ft. span across Nigger Creek. W. A. Blair is County Clerk.

LAWRENCE, KAN.—Bids will be received until noon, Oct. 1, by the County Clerk for constructing a concrete and masonry bridge. Plans and specifications are on file in the office of W. R. Green, County Clerk.

GIRARD, KAN.—The following contracts have been let by the County Commissioners for constructing bridges: JOSEPH DOYLE, bridges at Millington, Ausemus, County Line and Greenbush; HOWE BROS., three 20-ft. arches at Drywood.

WICHITA, KAN.—Bids will be received by the Board of County Commissioners until Sept. 26 for the construction of three bridges at a cost of $4,000.

GOTHENBURG, NEB.—Bids will be received by the County Clerk until Oct. 8 for constructing a bridge across the Platte River. Estimated cost, $19,900.

DICKINSON, N. DAK.—Three steel span bridges are to be built across the Heart, Antelope and Greene Rivers, all in Stark County.

INDEPENDENCE, MO.—A contract has been entered into between the Missouri Pacific Ry. Co. and the Metropolitan Street Ry. Co. for the construction of a concrete bridge across the Lexington branch of the Missouri Pacific at New South Main St. C. E. Smith is Bridge Engr., Missouri Pacific, at St. Louis, Mo.

*ST. JOSEPH, MO.—Competitive plans will be received until 11 a. m., Oct. 15 by the Board of Public Works of the City of St. Joseph, for the construction of a viaduct or subway on South Sixth St. to cross railroad tracks north and south of the Union Passenger Station in St. Joseph. Alfred Meier is Pres. See also Miscellaneous Contracts: Subway or Viaduct.

HELENA, ARK.—Bids are being asked by John McQuarles, County Superv. of Roads, for constructing a 128-ft. steel bridge over Big Creek.

HOUSTON, TEX.—Plans have been drawn by F. L. Dormant, Consult. Engr. for the city, for constructing a viaduct across the ship channel, White Oak Bayou, and the railroad tracks. It will be of reinforced concrete and will be 60 ft. in width, having a 45-ft. roadway and 7½-ft. sidewalks. It will have a 22-ft. clearance from the railroad tracks to the underside of the beams.

SEATTLE, WASH.—The contract has been awarded the PENNSYLVANIA STEEL CO., Central Bldg., Seattle, for 5,100 tons of steel for bridge construction for the Oregon Trunk Line R. R. Co. along the Chutes River. Several bridges are included in this contract, the principal one being over the Columbia River at Celino, Wash. William Ashton, Salt Lake City, Utah, is Ch. Engr.

A permit has been granted to the Oregon & Washington R. R. Co. for the construction of a steel viaduct across Jackson St. Estimated cost, $140,000. J. D. Isaacs, Chicago, Ill., is Consult. Engr.

TACOMA, WASH.—The Board of Commissioners of Pierce County is considering plans for the construction of a steel bridge across the Puyallup River. J. E. Noel is County Engr.

MARBLE, WASH.—The Upper Columbia River Co. has completed plans for the construction of a highway bridge across the Columbia River. Estimated cost, $300,000.

MERIDIAN, CAL.—The Northern Electric Co. is about to enter into an agreement with Sutter and Colusa counties for the construction of a bridge at Meridian. A. D. Schindler, Alaska Commercial Bldg., San Francisco, is Gen. Mgr.

SAN FRANCISCO, CAL.—A contract has been awarded to the PACIFIC CONSTRUCTION CO., 16 California St., for constructing a concrete bridge over Kings River. Cost, $35,963.

BRODERICK, CAL.—The contract of the Southern Pacific Co. for the construction of a bridge with a 170-ft. draw across the Sacramento River has been accepted by the Board of Supervisors of Yolo County.

ST. JOSEPH, ARIZ.—Bids will be received until Oct. 3 by C. Hess, Jr., Clerk of the Board of Supervisors, Holbrook, Ariz., for the construction of a steel bridge across the

Little Colorado River, at St. Joseph. Separate bids will be received on a bridge of three 110-ft. spans, and a structure of four 110-ft. spans.

WINSLOW, ARIZ.—Bids will be received by the Board of Supervisors until 2.30 p. m., Oct. 3, for building a bridge across Little Colorado River near St. Joseph. The bridge is to be constructed of steel and two bids are desired, one for a bridge of three 110-ft. spans and the other for bridge of four 110-ft. spans. C. Hess, Jr., is Clerk.

LEWISTON, IDAHO.—Two steel bridges are to be erected near here. One is to span Potlatch Creek and the other will be placed across Lawyer Canyon Creek. The former is to be [illegible] ft. in length and the latter will be 140 ft. The expense of both bridges will be paid by the adjoining counties.

TORONTO, ONT.—The F. H. McGUIGAN CONSTRUCTION CO. has been awarded the contract for the construction of the Queen St., East, high level bridge over the Don River at $193,000, exclusive of filling and paving. Work will be commenced at once.

BUILDINGS.

(*Denotes that this work is advertised in *Engineering News*.)

PITTSFIELD, MASS.—The Finance Committee of the School Board at a meeting held recently decided upon the erection of a school in the vicinity of Onoto St. Estimated cost, $80,000.

WEBSTER, MASS.—Bids were received as follows on Sept. 14 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post-office at Webster: Wheaton Building & Lumber Co., Putnam, Conn., $60,985; Conners Bros. Co., Lowell, Mass., $57,600; J. E. & A. L. Pennock, Land Title Bldg., Philadelphia, Pa., $56,740; William H. Fissell & Co., 1133 Broadway, New York, $59,773; William Werner, 657 Vanderbilt Ave., Brooklyn, $59,678; Woodberry & Leighton, 166 Devonshire St., Boston, $59,943.

CHESHIRE, CONN.—The contract for the state reformatory to be built at Cheshire, Conn., for which the legislature has appropriated $400,000, has been awarded to TRACY BROS. & CO., Waterbury, Conn., at $302,737. There were 36 bidders, but the figures of all of them were in excess of the amount available. The plans were amended, and the four lowest bidders under the modification were the successful bidder, and the following: C. B. Andrus & Son, Hartford, Conn., $307,629; Richard Johnson, Hartford, Conn., $311,282; Torrington Building Co., Torrington, Conn., $311,730.

NEW YORK, N. Y.—The Damascus Amusement Co. plans the erection of a 3-story theatre on the north side of Longwood Ave., 170 ft. east of Westchester Ave., the Bronx. The structure will be of Syrian architecture and will have a seating capacity of 1,200. Estimated cost, $80,000. W. H. McElfatrick, 1402 Broadway, is Arch.

NEW YORK, N. Y.—Plans have been filed with the Building Superintendent for a 4-story dwelling on the north side of 69th St., 125 ft. west of Park Ave., for Mrs. Charles L. Poor. The building will have a frontage of 25 ft. and a depth of 74 ft. with a facade of limestone and of fireproof construction. Walker & Gillette, 131 West 40th St., are Archs. The cost is estimated at $50,000.

Montgomery Maye, Lexington Ave. and 43d St., plans the construction of eight 5-story structures on the north side of Fox St., 105 ft. west of Leggett Ave., the Bronx. Each house will have a frontage of 40.7 ft. Nast & Springsteen, 21 West 45th St., are the Archs. The cost will be about $350,000.

The Wales Construction Co. will build a row of four 5-story houses on the block front on the south side of 152d St., between Wales and Tinton Aves., in the Bronx. The corner houses will each occupy a plot 46 × 90 ft., and the inside structures 54 × 85 ft. C. B. Meyers, 1 Union Sq., is the Arch. Estimated cost, $186,000.

NEW YORK, N. Y.—The Municipal Art Commission, at a meeting on Sept. 14, approved designs for a building for the Normal College to be erected on a site at 68th and 69th Sts., from Park Ave. to Lexington Ave. The facades will be of Indiana limestone above the granite base. A tower is to be erected at the Park Ave. end. Estimated cost, $500,000.

The Commission also approved designs for a high school building, the exterior to be of tapestry brick, with stone and terra cotta trimmings, to be erected at a cost of $435,000, at Irving and Putnam Aves., Brooklyn; designs for a public school building to be erected, at a cost of $275,000, at Ridgewood, Lincoln and Nichols Aves., Brooklyn, and designs for a public school building to be erected, at a cost of $270,000, at Throop Ave., Bartlett and Whipple Sts., Brooklyn.

The Commission furthermore approved designs for a municipal bathing house, to be erected, at a cost of $96,000, on the south side of Concourse Drive, Brighton Beach, and designs for a 4-story and basement building to be erected, at a cost of $10,000, on Blackwell's Island.

NEW YORK, N. Y.—Bids will be received until 3 p. m. Oct. 10, by C. B. J. Snyder, Supt. of School Bldgs., Dept of Education, for the general construction, etc. (Contract No. 2), of the Washington Irving High School, on the easterly side of Irving pl. between 16th and 17th Sts., Borough of Manhattan.

NEW YORK, N. Y.—See item under Light and Power Plants.

NEW YORK, N. Y.—Bids are asked by C. B. J. Snyder, Supt. School Bldgs., Dept. of Education, until 3 p. m., Oct. 3, for Item 1, concrete and brick foundations, plumbing, painting, repairs, etc., and Item 2, piling, curbing, filling and grading at Public School No. 120, Barren Island, Boro. of Brooklyn; For Item 1, installing heating and ventilating apparatus in additions to and alterations in Erasmus Hall High School, on the easterly side of Flatbush Ave., about 205 ft. north of Grant St., Boro. of Brooklyn.

BUFFALO, N. Y.—The Buffalo Tool & Supply Co. has had plans prepared and will receive bids in about 30 days, for the erection of a 1-story steel frame and glass warehouse, 75 × 300 ft., on a 2-acre site, recently acquired. Charles Hood, 30 Chapin Block, is Mgr.

The Board of Education, Henry P. Emerson, Supt., Municipal Bldg., will soon receive estimates for the construction of an addition to the State Normal School building at Jersey and 14th Sts. and Normal Ave., from plans drawn by F. B. Ware, State Arch., at Albany.

G. Morton Wolfe, Arch., Ellicott Sq. Bldg., is completing plans and will soon receive bids for an apartment building, 50 × 120 ft., two stories and basement, of brick, stone, marble and structural steel, to be erected at 367 Linwood Ave., by Sidney H. Woodruff. Estimated cost, $40,000.

CENTRAL ISLIP (Islip post-office) N. Y.—The State Commission in Lunacy has awarded to the NIALL BROS. CONSTRUCTION CO., of Troy, N. Y., the contract for the construction of kitchen and dining-room building in the group for chronic insane at the Central Islip State Hospital, Central Islip, at $112,830. F. B. Ware is State Arch., Albany.

WATERVLIET, N. Y.—Bids will be received at the office of the School Board, Watervliet, Hugh H. Lansing, Supt. and Secy., until 8 p. m., Sept. 26, for furnishing the necessary labor and materials required in the construction and completion of a school building for the School Board of Watervliet.

UNION HILL, N. J.—The Board of Education of Union Hill has selected Joseph D. Lugosch, 408 Kossuth St., Jersey City, to prepare plans for a school building to be erected on Hudson Ave., between Lewis and Gardner Sts. The structure will be of brick and fireproof and will contain 40 rooms and an assembly room. Estimated cost, $200,000.

CONNEAUT LAKE, PA.—A hotel to be known as the "Rider Hotel," is to be constructed on the site of the old Lord house, which was destroyed some time ago. The contract will be let soon. The proposed building will be four stories high and of brick construction. H. M. Rider is the owner.

EAST LIBERTY (Pittsburg post-office), PA.—A 6-story building is to be erected at the southwest corner of Penn and Shady Aves. by J. S. Crutchfield. Plans have been prepared by Thomas Hannah, Arch., Keenan Bldg., Pittsburg, who will let the contract soon. Each of the six floors will provide 13,300 sq. ft. of space. Estimated cost, $150,000.

HOMESTEAD, PA.—The contract for constructing the Homestead Central High School has been let to the GEORGE M. HALL CO., of Homestead, at $100,000. The building will be located at Eighth Ave. and Amity St.

PHILADELPHIA, PA.—It is stated that HENRY P. SCHNEIDER, 3713 Old York Road, will build 14 2-story houses, 16 × 40 ft. each, on Allegheny Ave. near Cedar St., and two stores and dwellings of the same size at Gratz and Ruscomb Sts., for J. F. Otterstetter, 4421 Germantown Ave., Philadelphia.

Ground will be broken soon for the 10-story apartment house which John Stafford will build on the lots at the southwest corner of Walnut and Camac Sts., which he purchased several months ago from the estate of the late George C. Thomas for a consideration of $180,000. The apartment house will correspond architecturally with the Hotel St. James, at 13th and Walnut Sts., to which it will serve as an annex. It will contain 300 rooms, and will cost about $300,000.

Penkert & Wunder are preparing plans for a 6-story building of concrete on the north side of Arch St., east of Seventh St., for Treacy, Morris & Co., 623 Market St., Philadelphia.

PHILADELPHIA, PA.—THE PENN BUILDING CO., 54th and Walnut Sts., will erect for Louis H. Cohan, an apartment house at 51st and Walnut Sts. The Walnut St. Frontage is 85 ft., 155 ft. on 51st St. and 65 ft. on Chancellor St. The house will contain 28 suites. Estimated cost, $2,000,000.

ROBERT A. PATTON, 35th St., will erect 25 2-story houses, 15x45 ft. each, on Catharine St., west of 56th St. to cost, $3,500 each.

WILLIAM R. BRICKER will erect twelve 2-story, 2-family flat houses, 20 × 70 ft., each at 46th and Sansom Sts., to cost, $54,000.

The GEORGE A. FULLER CO., Land Title Bldg., Philadelphia, has been awarded the contract for the erection of the zoological building on the grounds of the University of Pennsylvania. It will be a 3-story structure, with a basement of brick and stone and will be 216 × 137 ft. There will be pools for aquatic animals in the basement and operating and demonstrating rooms on the upper floors. Estimated cost, $200,000. Cope & Stewardson, 320 Walnut St., Philadelphia, Archs. Construction will start at once.

PHILADELPHIA, PA.—As the result of a meeting of the Finance Committee of the Board of Education, that body will ask for an appropriation of over $7,000,000 for school purposes. Of this, $545,350 will be asked for the purchase of sites and buildings for 1910 and $921,864 for 1911, for alterations and repairs, and additions, in 1910, $307,430 and in 1911, $300,000; laboratory and shop equipment in 1910, $63,233 and in 1911, $80,000.

JAMES C. ENBURG, 5436 Cedar St., Philadelphia, will erect 20 2-story houses, 15 × 42 ft. each, on Yewdall St., south of Cedar Ave., to cost $50,000.

George D. Sale has purchased from the Wisinoming Land Co. a tract of about 26 acres, extending on the north side of Deveraux St., from Walker to Torresdale Ave. The consideration was $65,000. The ground is intersected by Dittman, Jackson and Gillespie Sts. and will be improved by between 200 and 300 houses.

The Pennsylvania R. R. Co. is to build a number of passenger stations in Ohio, Indiana and Maryland, one at Fort Wayne, Ind., to cost $100,000. Among the points to benefit by these improvements are Port Deposit, Md., and Steubenville, the latter to get a building costing $130,000, it is stated. Alex. C. Shand, Philadelphia, is Ch. Engr.

BALTIMORE, MD.—JAMES F. FARLEY, Franklin Bldg., has been awarded the contract for the erection of an apartment house for Eugene Blake, 15 South Gay St., at 508-510 South Ann St., from plans drawn by Henry J. Tinley, 314 North Charles St. It will be three stories, of brick construction with a slag roof, steam heat, gas and electric lighting and plumbing.

It is reported that JOHN HILTZ & SONS, 3 Clay St., are the contractors for the proposed Walters Public Bath House, Laundry, and Comfort Station, to be erected on the corner of West and Marshall Sts., for the Free Public Bath Commission, Eugene Levering, Chn., 26 South St. Plans were prepared by Theodore Wells Pietsch, 1001 American Bldg. It will be two stories, 40 x 90 ft. of brick and stucco with terra cotta trim, slate and slag roof, steam and hot water heating.

BALTIMORE, MD.—The contract for the erection of the 4-story store and warehouse building at the corner of Eutaw and Fayette Sts. has been awarded to J. ELMER STANFIELD, INC., 15 East Fayette St., Baltimore. The structure will be of pressed brick with stone trimmings. The first floor will be used as a drug store. Haskell & Barnes, Archs., Wilson Bldg., prepared the plans.

HAMPSTEAD, MD.—Plans are in course of preparation for a bank and office building. It will be three stories high and will be constructed of pressed brick and Indiana limestone trimmings. F. E. and H. R. Davis, 220 St. Paul St., Baltimore, are the Archs.

*WASHINGTON, D. C.—Bids are asked until 2 p. m., Oct. 3, by the Secretary of the Interior, Washington, for the construction of the municipal training and arts building, Howard University, Washington, D. C.

CLARENDON, VA.—Milburn, Heister & Co., Archs., Home Life Bldg., Washington, D. C., have awarded the contract to L. H. THOMPSON, Clarendon, for the erection and completion of a residence for Charles Rausher, of Washington.

*FORT MONROE, VA.—Bids are asked by Capt. Ernest R. Tilton, Constr. Q. M., until 10 a. m., Oct. 11, for the repairs to Field Officers' Quarters No. 93, at Fort Monroe, Va., including repair work for construction, plumbing, heating, electrical wiring and fixtures.

TROY, ALA.—Bids will be received until 3 p. m., Oct. 24, by James Knox Taylor, Superv. Arch., Washington, D. C., for the construction complete (including plumbing, gas piping, heating apparatus and electric conduits and wiring), of the U. S. post-office at Troy.

MEMPHIS, TENN.—According to reports a 12-story loft building is to be erected soon on Jefferson Ave., between North Second and North Third Sts. Plans for the proposed building have been prepared by the Weathers-Foley Co., Scimitar Bldg., Memphis, Archs., and it is stated that the Syndicate Building Co. will be incorporated for the purpose of erecting the structure, which will be 90.6 × 112.6 ft. James S. Warren is Mgr. of the Bureau of Publicity and Development of the Business Men's Club, Memphis.

MEMPHIS, TENN.—Bids will be received by Shaw & Pfeil, Tennessee Trust Bldg., Memphis, Archs., until noon, Oct. 17, for the erection and completion of a central police station building for the city of Memphis, to be located on the west side of Second St., between Adams and Washington Sts. Dave Halle is Chn. and Dwight M. Armstrong is Secy. of the Police Station Comn.

*HARRIMAN, TENN.—Bids were received as follows on Sept. 16, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post office at Harriman. Harry A. Bishop, Chicago, Ill., $48,000; McHenry-Beatty Construction Co., East Liverpool, Ohio, $53,440; George T. Hood & Co., Harriman, Tenn., $49,139; Miles, Bradt & Co., Austell Bldg., Atlanta, Ga., $54,000.

FRANKFORT, KY.—Bids will be received by S. A. Harris, Secy., until 3 p. m., Sept. 26, for the erection of a Y. M. C. A. building from plans drawn by Leo L. Oberwarth, I. O. O. F. Bldg., Louisville. Albert McClure is Chn. of Bldg. Com.

CLEVELAND, OHIO.—It is stated that the City Hall Commission has asked J. Milton Dyer, Arch., Cuyahoga Bldg., to advertise for bids for excavating and laying foundation for the proposed city hall. It is estimated the second contract will amount to over $1,000,000, without the roof and to [illegible],000, if it includes the roof. Robert Hoffman is City Engr.

TROY, OHIO.—We are officially advised that the Troy Wagon Works Co. contemplates the erection of a 3-story steel and concrete warehouse, 100 × 165 ft. Charles A. Geiger is Mgr.

TRENTON, OHIO.—Bids are asked by J. K. Brill, Clk. of the Bd. of Education, Trenton, until noon, Sept. 24, for furnishing the labor and material for the construction of a school house and for the labor and material for the erection and completion of a steam heating system in the building to be erected in what is known as Trenton Village School District No. 8, in Madison Township, according to the plans and specifications prepared by William D. Lingler, Arch., 17 Frechtling Block, Hamilton, Ohio.

COLUMBUS, OHIO.—Bids will be received until noon, Sept. 27, by Richards, McCarty & Bulford, Archs., The Ruggery, for the construction of a theatre building, 6 stories high, at Third and State Sts., for F. W. Schumacher, 750 East Broad St.

AUBURN, IND.—The DeKalb County Council has appropriated $250,000 for a new court-house. Bids will be received by the County Commissioners soon. Mahurin & Mahurin, Swinney Block, Fort Wayne, are Archs.

ANDERSON, IND.—The Grand Lodge of the Knights of Pythias are planning to build a Pythian Home in this city. Estimated cost, $80,000.

CRAWFORDSVILLE, IND.—Patton & Miller, Archs., 140 Dearborn St., Chicago, Ill., has let the contract for concrete work to the STANDARD CONCRETE CONSTRUCTION CO., 184 La Salle St., Chicago, for a school building at Crawfordsville, for the Board of Education. Estimated cost, $90,000.

MICHIGAN CITY, IND.—The Trustees of the First Christian Church are asking for bids for the superstructure of a church on the corner of Pine and Ripley Sts.

LAPORTE, IND.—F. H. Morrison & Co., have let a contract to SAMUEL LAMBERT, for the construction of an auditorium building, with store rooms below. The building will be 67 × 197 ft., of pressed brick and stone and will have three stairways and three elevators.

DETROIT, MICH.—A building permit has been granted the Trustees of the Woodward Ave. Baptist Church, for the erection of a church-house. The structure will be three stories high of brick, trimmed with stone. Estimated cost, $50,000. George D. Mason, 80 Griswold St., Detroit, is Arch.

The Department of Parks and Boulevards, M. P. Hulburt, Comr., 201 City Hall, will receive bids soon for a garage to be located on Belle Isle.

DETROIT, MICH.—Albert Kahn and E. Wilby, 800 Trussed Concrete Bldg., let the following contracts on Sept. 10 for the new garage and sales room for the Detroit Motor Sales Co., care of Architects; Masonry to HENRY CAREN, 210 Joseph Campeau Ave.; carpentry to M. H. Hingle, 208 Champlain St.

The John Scott Co., 1603 Ford Bldg., Detroit, let the following contracts on Sept. 9, for the Henry B. Lewis Iron Works, 45 Joseph Campeau Ave. The building is to cost $40,000 and will be of brick and steel, 200 × 120 ft.; Masonry to CHASE & SCHULTZ, Chamber of Commerce; carpentry to SCHMIED-SISMAN CO., 399 Beaufait Ave.

George D. Mason, 80 Griswold St., is taking figures on the proposed Hospital for the City of Detroit, John F. McKinley is Secy. of Health Board, 233 St. Antoine St. The building will be of brick 2½ stories high and 45 × 185 ft. Cost, $60,000.

DETROIT, MICH.—Burrowes and Wells, 703 Trussed Concrete Bldg., have prepared plans for a store and apartment building, 3 stories and basement, 103 × 18 ft., for Mrs. A. F. Gray, care of Architects. The building is to be of pressed and stock brick and Bedford stone with composition roof, structural iron, hardwood finished floors and electric fixtures will be used.

GRAND RAPIDS, MICH.—The Grand Rapids Brewing Co., O. H. Ryan, Mgr., 35 Ellsworth Ave., is having plans prepared for a 3-story and basement hotel, 97 × 56 ft. to be located at Island and Market Sts. Cost, $50,000.

NILES, MICH.—John D. Chubb, 112 South Clark St., Chicago, Ill., let the general contract for the 3-story and basement high school for the Board of Education of Niles, J. D. Greenway, Secy. to GEORGE RICKMAN & SONS CO. Pratt Bldg., Kalamazoo, Mich. Cost, $50,000. Owner and Architect will take bids later on steam heating and ventilation.

SAGINAW, MICH.—C. L. Cowles, 114 North Washington Ave., will soon let contracts for the proposed Tuberculosis Hospital for the City of Saginaw. David C. Bell is City Clerk. The building will be heated by steam.

SAULT STE. MARIE, MICH.—C. L. Cowles 114 North Washington St., Saginaw, let the general contract on Sept. 6 for the proposed warehouse for the Saginaw Beef Co., W. G. Cornwell, Mgr. Sault Ste. Marie, to DALGLEISH & BELLOWS of Sault Ste. Marie.

CHICAGO, ILL.—Estimates are being received by James Burns, Arch., 112 Clark St., on a 5-story building, 50 × 80 ft., at 4025-7 West Madison St., for the Keelin Fire Proof Storage Co. It will be of brick and mill construction, with pressed brick front and electric freight elevator.

F. M. Barton, Arch., Medinah Temple, is preparing plans for 18 apartments to be constructed at the southwest corner of Racine and Sunnyside Aves. They are to be of pressed brick construction, with hardwood finish, mantels, consols, mosaic and tile work, steam heating, modern plumbing and combination light fixtures. Estimated cost, $65,000.

Perkins & Hamilton, Archs., 140 Dearborn St., have completed plans for a 3-story apartment building, 60 × 150 ft., at Belden and North Park Aves., for F. H. Gansbergen, Chamber of Commerce Bldg. It will be of pressed brick construction, hardwood finish, mantels, consols, mosaic and tile works, steam heating and modern plumbing.

A new Cook County Hospital to require approximately five years for completion, is planned, according to an announcement by the Board of County Commissioners. The ten buildings, comprising the proposed hospital, will be placed on the site of the present hospital, which is inclosed by Harrison, Wood, Polk and Lincoln Sts. The plan embraces surgical buildings, medical buildings, power plant, laundry and workshop, an administration and receiving building, a recreation hall and chapel, a childrens' building, an isolation and a maternity building, all of which will be connected with wide communicating corridors. A committee of citizens made up of Dr. William L. Baum, John W. Scott, of Carson, Pirie, Scott & Co., Julius Rosenwald, Pres. of Sears-Roebuck Co., Dr. Charles H. Mix and George M. Reynolds, Pres. of the Continental and Commercial National Bank, recently met and approved the plans. The estimated cost is $10,000,000.

CHICAGO, ILL.—W. G. Williamson, Arch., 153 La Salle St., Chicago, is preparing plans for an addition to the Milliken Bank, to be of tile, steel and terra cotta construction, with steam heating, marble and mosaic work. The estimated cost is $40,000.

George Beaumont, Arch., 115 Dearborn St., Chicago, is receiving estimates for a 9-story building, 80 × 165 ft., at Wabash Ave. and Harmon Court, for C. M. Gunther. It will be of steel and tile, fireproof construction, with steam heating and electric elevators. Estimated cost, $250,000.

Ottenheimer, Stern & Reichert, Archs., 134 Monroe St., are preparing plans for a 3-story warehouse, 80 × 125 ft., at 21st St. and Western Ave., for Stein Bros., to be brick and mill construction, with fireproof windows and electric freight elevators. The cost will be about $40,000.

Beers & Beers, Archs., 168 Michigan Ave., have awarded the contract for the concrete work to the STANDARD CONCRETE CONSTRUCTION CO., 184 La Salle St., and the masonry contract to ARTHUR MEAGHER, for a 6-story office building to cost $200,000, at 441-449 Fifth Ave., for the Wells Fargo Express Co. Other contracts for this work were noted last week.

L. E. Stanhope, Arch., 184 La Salle St., has awarded the carpentry contract to the SOLLITT CONTRACTING CO., 164 Dearborn St., and plumbing and heating to NOBLE & THUMM, 292 Lincoln Ave., for a $100,000 church at 44th St. and Michigan Ave., for the Eighth Church of Christ, Scientist, congregation. Noted on Sept. 8.

CHICAGO, ILL.—It is reported that negotiations are pending which will result in the erection of a 10-story building at the southeast corner of Fifth Ave. and Polk St. by the Marshall Field estate. This corner fronts 139 ft. on Fifth Ave. and has a depth of 106 ft. The building to be erected on this property, it is understood, will cost between $300,000 and $400,000, and it will be occupied by the Chicago Paper Co., under a long-term lease.

CHICAGO, ILL.—The contract for constructing the S. Karpen Bldg., at Michigan Ave. and Eldridge Pl. has been awarded to the THOMPSON-STARRETT CO., 279 Dearborn St., Chicago and 49 Wall St., New York, we are officially advised. Marshall & Fox, 164 Dearborn St., Chicago, are Archs.

HIGHLAND PARK, ILL.—F. W. Perkins, Arch., 34 Van Buren St., Chicago, is preparing plans for a residence and garage, two stories, 33 × 104 ft., at Highland Park, for H. H. Hitchcock. It is to be of brick construction with hardwood finish, brick fireplaces, hot water heating and modern plumbing.

PEORIA, ILL.—Sidney Lovell, Arch., 164 Dearborn St., has awarded the structural iron work contract to the JENNETTE BRIDGE & IRON WORKS, of Chicago, for a theater at Peoria, for Churchill & Burrows. Estimates for brick work and concrete are now being received. Estimated cost, $50,000. Noted last week.

ST. PAUL, MINN.—Preliminary sketches for the proposed Commercial Club have been drawn by Ellerbe & Round, Archs., Endicott Bldg. The club proposes to build a structure of from 8 to 12 stories in height. Eli S. Warner is Pres. of the club. Cost, $300,000.

ST. PAUL, MINN.—It is stated that the contract for the construction of the administration building for the Wilder Charity at Fifth and Washington Sts., has been let to the GEORGE J. GRANT CONSTRUCTION CO., 709 New York Life Bldg. The plans were prepared by C. H. Johnston, State Arch. and the site has already been cleared. It will be two stories, of brick and cut stone fireproof construction. Cost, $100,000.

*WILLMAR, MINN.—Bids will be received by James Knox Taylor, Superv. Arch., until 3 p. m., Oct. 24, for the construction, complete (including plumbing, gas piping, heating apparatus and electric conduits and wiring) of the U. S. post-office at Willmar.

PLATTSMOUTH, NEB.—Bids were received as follows on Sept. 19, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, for the construction of a post-office building at Plattsmouth.

General Construction Co., Hathaway Bldg., Milwaukee, Wis., $48,665; King Lumber Co., Charlottesville, Va., $49,400; Northern Construction Co., 421 Milwaukee St., Milwaukee, Wis., $48,800; Hiram Lloyd Building and Construction Co., Odd Fellows Bldg., St. Louis, $51,444; McHenry-Beatty Construction Co., East Liverpool, Ohio, $47,700; Latimer & Benning, Kansas City, Mo., $48,847; J. H. Wiese, South Omaha, Neb., $47,826.

FAIRBURY, NEB.—Bids will be received by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Oct. 15, for the construction complete (including plumbing, gas piping, heating apparatus and electric conduits and wiring,) of the U. S. post-office at Fairbury.

ELLENSBURG, WASH.—It is stated that a 75-room hotel is to be erected in the near future in Ellensburg, by A. S. Russell, of Seattle. Location has not yet been definitely decided upon. Estimated cost, $75,000.

HOQUIAM, WASH.—Bids will be asked for soon for the construction of a 2-story reinforced-concrete store and office building, which A. S. Hodson, Fred Straub and the A. O. U. W. propose erecting on Eighth St. Estimated cost, $50,000.

NORTH YAKIMA, WASH.—The contract for building the Masonic Temple has been awarded to CORBETT & RAYMOND, of Portland. Plans for same are now with W. W. DeVeaux, Arch., Miller Bldg., North Yakima.

SEATTLE, WASH.—It is stated that plans are being prepared for a general hospital in Seattle to be built by the Noble Hospital, Inc. The Bowen Home at Fremont near Woodland Park Ave. and Kilbourne St. has been purchased from P. J. Moran for this purpose. The building will be erected in three wings around the 3-story house now occupying the property. Among the Trustees of the company are Drs. Charles Noble, 506 Howard St. North, A. Haymond, G. Perkin, L. Gray and F. Matson.

SPOKANE, WASH.—Construction work to include the excavation and foundation for the proposed $80,000 apartment house to be built by the Reserve Realty Co. on the north side of Riverside Ave. near Walnut St., will start soon, according to J. H. Crockwell, Agency Mgr. of the company. The building work proper will start early in the spring. The building will be of brick and terra cotta, 4½ stories on the Riverside Ave. side, and 7½ stories high on the rear. The frontage on Riverside Ave. is 50 ft. and the depth is 150 ft.

TACOMA, WASH.—Bids will be received in about 90 days by Fay, Russell & Babcock, Archs., Central Bldg., for the construction of a brick and terra cotta church building for the Sixth Ave., Baptist Church. It will be a 1-story building with a gallery and a basement. Estimated cost, $80,000.

PORTLAND, ORE.—J. O. Wrenn, Arch., Board of Trade Bldg., is preparing plans for a 4-story and basement building to be erected at the southeast corner of Grand Ave. and East Ash St. for James Cartwright and associates. Cost is estimated at $70,000.

Aaron H. Gould, Arch., has awarded the contract for the Milton J. Jones meat market building to the LEONARD CONSTRUCTION CO., at $42,000. It is to be a reinforced-concrete structure and will be built on the site of the old market on Fourth St., between Adler and Morrison Sts.

Plans have been prepared by Bridges & Webber, Archs., 541 Montgomery St., Portland, for the main building for the Multnomah County farm, cost of which is estimated at $80,000. Bids for the superstructure will be received soon.

Fidelity Investment Co. will erect a 4-story brick warehouse at 14th St., between Kearney and Lovejoy Sts. The UNITED ENGINEERING & CONSTRUCTION CO. are the contractors. Estimated cost, $200,000.

PORTLAND, ORE.—Whitehouse & Fouilhoux, Archs., have been selected to draw plans for a building for the Lincoln High School, by the Board of School Directors. Bids will probably be received about Dec. 1. The building will cost approximately $350,000.

LOS ANGELES, CAL.—Plans have been prepared for two 6-story buildings for store purposes on the west side of Broadway, between Seventh and Eighth Sts., by the Isaacs Bros. Co. at an estimated cost of $200,000.

ROWLAND & PRUESS, contractors, will build a 4-story brick apartment building on the northeast corner of Orange and Valencia Sts. from plans drawn by A. L. Haley, Citizens' National Bank Bldg., Los Angeles, for J. W. Owen. Estimated cost, $50,160.

LOS ANGELES, CAL.—A site has been selected by William A. Clark and ground will be broken soon for a home for young women in Los Angeles as a memorial to Mary Andrews Clark, Mr. Clark's mother. The building will cost $500,000.

SAN FRANCISCO, CAL.—The Knights of Columbus plan a building of Class A fireproof construction on a lot having a frontage of 68.7 ft. and a depth of 137.6 ft. on the north side of Golden Gate Ave., between Jones and Leavenworth Sts. Estimated cost, $150,000. Smith O'Brien, Humboldt Bank Bldg., San Francisco, is Arch.

PASADENA, CAL.—JAMES A. HARMON 84 Kendall Pl., has been awarded the general contract for the erection of the proposed Y. M. C. A. building here. The cost of the entire building, will be $125,000. It will be four stories high, 100 × 160 ft. of steel construction. A cement plunge, 20 × 60 ft. will be installed. A. B. Benton, 114 North Spring St., Los Angeles, is Arch.

SALMON CITY, IDAHO.—The site for the proposed schoolhouse to be erected in the Brooklyn addition of Salmon City has been chosen. Estimated cost, $40,000.

SUMMERSIDE, P. E. I.—Bids will be received until 4 p. m., Sept. 28, for the construction of an armory at Summerside. J. B. Hegan is Res. Engr.

CAMPBELTON, N. B.——The Intercolonial Railway Board of Management has decided on plans for extensive railway buildings at Campbellton, to replace those destroyed by fire last July. The total cost will be about $200,000. A. W. Campbell, Ottawa, Ont., is Dep. Min. of Railways & Canals.

WATER SUPPLY—IRRIGATION.

PORTLAND, ME.—On Sept. 12 bids for the new 14-mile water main from Sebago Lake to Portland, were opened by the Board of Water Commissioners. The specifications called for bids for iron main to be 42 ins. in diameter and steel main to be 48 ins. in diameter, and were to include the cost of laying. The bids that were made for the steel main included the cost of laying, and those for the iron main were for the pipe alone, the bid for laying being a separate one. The lowest bidder for the steel 48-in. main, including the laying, was T. A. Gillespie & Co., 30 Church St., New York, and the bid was $393,325. The lowest bidder for c.-i. pipe was the U. S. Cast Iron Pipe & Foundry Co., 71 Broadway, New York, which was $489,540, for the pipe alone. The lowest bidder for laying iron pipe was John Tierney, whose bid was $185,676. This makes a total cost of furnishing and laying cast-iron 42-inch pipe $684,219. The Engineer's estimate for the purchase and laying of 48-in. steel pipe was $658,790. The only other bid for c.-i. pipe, not including the laying, was submitted by the Camden Iron Foundry Co., whose bid was $503,740. The bids for laying the cast-iron pipe, except that of John Tierney, given above, were: A. Tamascello, $239,821; B. Shaw, $263,460; MacArthur Bros., $289,225; Patrick McGovern, 6 Beacon St., Boston, Mass., $295,780; Gorgione & Romano and John W. Gulliver, joint bid of $464,772. The Engineer's estimate for laying the c.-i. pipe was $251,775. The contract has been awarded to the U. S. CAST IRON PIPE & FOUNDRY CO. C. W. Fenn is Engr. of Trustees, 11 Exchange St., Portland; Hazen & Whipple, 103 Park Ave., New York, are Consult. Engrs. Noted on Aug. 18.

PITTSFIELD, MASS.—The Board of Aldermen, on Sept. 7, passed an order appropriating $24,000 for a permanent pump at Onota Lake.

LYNN, MASS.—We are officially advised that a site has been selected on Walnut St. at Lynnhurst for the proposed 12,000,000-gallon mechanical filter plant. Cost, $500,000. Hering & Fuller, 170 Broadway, New York, N. Y., are Engrs. The plans are in course of preparation and will be completed probably early in October.

EAST HARTFORD, CONN.—The Board of Commissioners of the East Hartford Fire District has awarded the contract for installing the new pipe line system from the Hillstown reservoir to the town to O'NEIL BROS. & NERO, Hartford, Conn., at $11,360. The pipe and other material will be furnished by the District.

ORISKANY FALLS, N. Y.—On Sept. 6 the village voted to authorize the Board of Trustees of the village of Oriskany Falls to establish a gravity system of water-works for supplying the village and its inhabitants with water, at an expense not exceeding the sum of $30,000. A. M. Scripture, of New Hartford, N. Y., is Engr.

IRONDEQUOIT, N. Y.—Bids will be received until noon, Sept. 26, by the Commissioners of the Summerville Water District, town of Irondequoit, J. E. Summerhays, Secy., at their office, Powers Bldg., Rochester, N. Y., for constructing a water-works system, including an 8-in. c.-i. pipe crossing of the Genesee River and a distribution system complete, with appurtenances at Summerville and Windsor Beach. Separate bids will be received for the river crossing.

NEW YORK, N. Y.—Bids are asked until 3 p. m., Sept. 29, by the Park Board for furnishing and installing a water-supply system for the park plots in Broadway, between Cathedral Parkway and 122d St., Boro. of Manhattan.

The following bids were received on Sept. 14 by the Department of Water Supply, Gas and Electricity, for furnishing and delivering (a) c.-i. pipe, (b) special castings, and (c) valve box castings: John Fox & Co., 253 Broadway, (a) $22.20, (b) $46.50, (c) $42.50; Florence Iron Co., 25 Broad St., (a) $22.60, (b) $43.40, (c) $31; Standard Foundry Co., 45 Broadway, (a) $22.66, (b) $46.90, (c) $42.50; U. S. Cast Iron Pipe & Foundry Co., 71 Broadway, (a) $23.40, (b) $49, (c) $45; Warren Foundry & Machine Co., 111 Broadway, (a) $22.40, (b) $46, (c) $46.

Bids were received at the same place and time for hauling and laying water mains and appurtenances in City Island Ave. and intersecting streets, in City Island, Boro. of the Bronx: Haggerty & Drummond, $7,978; John L. Shea, $15,793; Soraci Contracting Co., $6,619; Henry E. Fox, $9,914; S. Ammanna, $13,935; Wilton Construction Co., $9,839; Nelson & Dowling, $12,883; James McAvoy, $13,081; L. D. Gregory, $7,743.

*BINGHAMTON, N. Y.—Bids are asked by the Water Commissioners until 10 a. m., Nov. 1, for constructing a 5,000,000-gallon distributing reservoir. The work involves about 2,900 cu. yds. of concrete, plain and reinforced, and about 50,000 cu. yds. of excavation. Clinton L. Bogert, 57 East 129th St., New York, is Des. Engr.; John D. Davidson is Secy. Bd. of Water Comrs.

*ITHACA, N. Y.—Bids will be received by Donald F. McLeod, City Engr., until 7.30 p. m., Sept. 28, for clearing a reservoir site of about 40 acres, constructing an earth embankment containing about 5,000 cu. yds., constructing a dam containing about 7,700 cu. yds. of concrete and requiring the excavation of about 4,300 cu. yds. of rock and furnishing and laying about 9,000 ft. of 24-in. c.-i. pipe. Plans and specifications are on file at the office of Engineering News, New York. Noted Last week.

SOMERVILLE, N. J.—We are officially advised that preliminary surveys have been made for municipal water-works by Nicholas S. Hill, Jr., Engr., 100 William St., New York, N. Y., who has submitted a report. On Sept. 15 it was noted that there are four projects, as follows: (1) Pumped, filtered surface supply from the North Branch of the Raritan River, near North Branch Depot; cost, $218,915. (2) Gravity unfiltered surface supply from the North Branch of Rockaway Creek, near Mountainville; cost, $377,635. (3) Gravity filtered surface supply from the Black or Lamington River at a point about 1¼ miles north of Pottersville; cost, $389,071. (4) Pumped, filtered and softened underground water supply from wells located on the Raritan River, near Finderne Station; cost, $222,883. A town election is to be held to decide whether or not to accept one of the proposed plans for a municipal plant. Charles C. Kenyon is Mayor.

*ERIE, PA.—Bids will be received until 2 p. m., Sept. 28, by Commissioners of Water Works. George C. Gensheimer, Secy., for grading and cementing Settling Basin No. 1. The work will consist in grading and cementing Settling Basin No. 1 on Presque Isle Peninsulas. The size of the basin is 620 × 430 × 14 ft.

CUMBERLAND, MD.—We are officially advised that the City Commission has engaged James H. Fuertes, 140 Nassau St., New York, as consulting engineer in connection with construction of water-works. The Legislature has authorized a $300,000 bond issue. An examination is under way to determine the best source of sup[illegible] for the new works, and to settle the que[illegible]n as to whether the purification of the p[illegible]nt supply would be preferable to secu[illegible] a new source.

*PARKERSBURG, W. VA.—Th[illegible]oard of Affairs has received bids for tw[illegible]mps of 4,000,000 gallons capacity each, tw[illegible]00-HP. water-tube boilers; also for the [illegible]p well foundations and connections with [illegible] filtration plant according to the plans [illegible] specifications prepared by the Water [illegible]ks Engineers. Owing to the complex[illegible] of the bids they were referred to the [illegible]sulting engineers to tabulate and deter[illegible] which are the lowest. The following b[illegible] on the pumps were announced: H. R. [illegible]rthington Co., 115 Broadway, New York, $31,500; Pratt Iron Works, Dayton, Ohio, $67,600; Epping-Carpenter Co., Pittsburg, [illegible] $29,300; second bid $30,900; Holley [illegible] Co., $40,980; Wilson-Snider Mfg. Co., [illegible]sburg, first bid $53,000, second bid $56,[illegible] third bid $36,660, fourth bid $37,840; A[illegible]-Chalmers Co., Milwaukee, first bid $81,7[illegible] second bid $54,950.

The bidders on the constructio[illegible] of the pump well were: The Cantrel Co[illegible] of this city; Martin & Hughes, of Pittsbur[illegible] W. M. Crisholm, of Pittsburg; and the Ja[illegible] Westwater Co., of Pittsburg.

The bids on the boilers were re[illegible]ved as follows: Babcock-Wilcox Co., $6,70[illegible] second bid $8,000; Casey-Hedges Co., $5,98[illegible] W. B. Osborne, $8,210; Heine Safety Bo[illegible]r Co., $7,222; Toledo-Flanner Co., $6,000, [illegible]nd the E. Keeler Co., $6,461. A. Geisler, [illegible]f Dayton, Ohio, and Samuel L. Gray, o[illegible] Providence, R. I., are Consult. Engrs. [illegible]or the entire water-works improvement project.

FAIRMONT, W. VA.—S. B. Miller, City Engr. and A. D. Simon, Chn. of Water Com., are now preparing plans for the construction of a system which is to supply water to the hill top residents of this city and it is likely that at the next meeting of the City Council bids will be asked for a large amount of work.

NEWBURG, W. VA.—The Baltimore & Ohio R. R. Co. has awarded a contract to CHARLES SIMMS & CO., for the construction of a reservoir at Newburg, W. Va., which is to furnish water for the locomotives on the Baltimore & Ohio system in that section. The reservoir will cover about 15 acres of ground. It is a part of the improvement plan which has been authorized by the directors of the Baltimore & Ohio for West Virginia. Water from the reservoir will be piped to various places along the line of the Baltimore & Ohio. A. M. Kinsman, Baltimore, Md., is Consult. Engr.

WHEELING, W. VA.—L. G. HALLECK & SON, of this city, were awarded the contract on Sept. 13 for driving a 250-ft. duct and laying of a 36-in. water main to connect the new Allis-Chalmers pump at the Wheeling Water Works to the old city discharge mains. The line will pass under the Pennsylvania R. R. tracks, the permit to drive the tunnel having been granted some time ago. Bids were submitted on the contract as follows: L. G. Halleck & Son on the work as a whole, $15,313; Chisholm & Sons, of Pittsburg, $17,406. Other contractors to submit bids were, for materials: U. S. Cast Iron Pipe & Foundry Co., Pittsburg, $9,298; Water Works Supply Co., Pittsburg, $9,714. For driving the tunnel: William Chisholm & Son, $8,331; L. G. Halleck, $8,860. C. C. Cooke is City Engr. and J. R. Kommer, of Pittsburg, is Consult. Engr.

SPENCER, N. C.—A contract has been let by the East Spencer Board of Aldermen to the J. B. McCRARY CO., of Atlanta, Ga., to install a water-works system in East Spencer. Bonds for the purpose were voted in May of this year and it is stated that work on the plant will begin at once. The contract provides for 40 fire hydrants and ample mains and service pipes to reach all parts of East Spencer.

ATLANTA, GA.—P. H. Norcross, Engr., Candler Bldg., has completed and presented to the County Commissioners plans for water-works, sewers and an electric light plant at the county almshouse, to cost from $17,000 to $20,000.

LAKELAND, FLA.—See item under Light and Power Plants.

JACKSONVILLE, FLA.—Bids will be received until 3 p. m., Oct. 4 (change of date) by the Trustees of the Water-Works and Improvement Bonds, W. M. Bostwick, Jr., Chn., for furnishing material and constructing a 3,000,000-gallon covered reinforced-concrete reservoir. R. N. Ellis is Supt. Water-Works.

MOBILE, ALA.—Wright Smith, City Engr., has completed a map for extensions to the water-works and sewer system, to cost about $500,000.

OWENSBORO, KY.—The City Council on Sept. 8 appropriated $20,000 for the construction of a water softening plant at the city water-works.

GEORGETOWN, KY.—Bids were received by the City Council on Aug. 25 for construction of the water purification plant from plans of Alexander Potter, 114 Liberty St., New York, N. Y., and the contract has been awarded to L. EADY, of Louisville, Ky., at $17,096.

ORRVILLE, OHIO.—Bids will be received until Sept. 30 by the Board of Public Affairs, W. R. Cook, Supt., for laying 9,482 ft. of 4 to 10-in. pipe, setting eleven hydrants, etc.

CLEVELAND, OHIO.—Bids will be received until Oct. 11 by H. H. Canfield, Clk. Village of Cleveland Heights, at the Beckman Bldg., Cleveland, for furnishing material and improving Noble Road by laying 8, 6, and 4-in. water mains. The F. A. Pease Engineering Co., are Engrs., Williamson Bldg., Cleveland.

CENTERVILLE, MICH.—Vance I. Gray, 226 Huron St., Toledo, Ohio, is preparing plans for a water-works and an electric light plant for the Centerville Water & Light Co., F. W. Thomas, Secy., 1919 Monroe St., Toledo.

HIGHLAND PARK, MICH.—The citizens voted Sept. 1 to issue $31,000 of bonds for water-works extension, to include an extension to connect with the 16-in. city main out Hamilton Boulevard as far as Richton Ave.

CADILLAC, MICH.—See item under Light and Power Plants.

QUINCY, ILL.—The Citizens' Water-Works Co. has let the contract for constructing a pumping station to F. W. MENKE STONE & LIME CO., of Quincy, Ill., for $13,320. W. R. [illegible]ston is Supt.

EAST ALTON, ILL.—The Board of Local Improvements has accepted plans for water-works to cost about $12,000.

BEECHER, ILL.—Preparations are being made to start the work of installing the water-works system, and the City Clerk has been authorized to advertise for bids for the pumping station, pumps, tanks, compressors, engines, etc., also to advertise for bids to dispose of the bond issue.

OCONOMOWOC, WIS.—Bids will be received by Clarence Schoenike, City Clerk, until 4.30 p. m., Oct. 3, for drilling a 16-in. well, 800 to 1,000 ft. deep. W. G. Kirchoffer is Engr., Madison, Wis.

PELLA, IOWA.—Contracts for constructing combined water and light plant have been awarded as follows: To DES MOINES BRIDGE & IRON CO., of Des Moines, laying 18,500 ft. 10-in. pipe, furnishing valves, hydrants and specials, constructing filter gallery, well and pump house and furnishing lead and jute, $20,519; to JOSEPH E. BORTENLANGER, Omaha, Neb., for furnishing engines, boilers, generators, motors and all electrical apparatus, two triplex pumps, 3½ miles transmission line, city lighting lines complete and secondary wiring, $42,644; to K. A. VERHEY, constructing power-house, $6,390, and to U. S. CAST IRON PIPE & FOUNDRY CO., pipe at $24 per ton; total, $15,625. Grand total, $85,178. A. C. Kuyper, City Clk.; Iowa Engineering Co., Clinton, Iowa, are Engrs. Bids were received on Sept. 6.

OCHEYEDAN, IOWA.—Bids will be received by E. J. Parrott, Clerk, until 5 p. m., Oct. 5, for the construction of a water-works system, according to plans of O. Claussen, Consult. Engr., German-American Bank Bldg., St. Paul, Minn. The plans include a 50,000-gallon steel tank and tower 110 ft. high, 15-HP. gasoline engine and 8,000 ft. of 8, 6 and 4-in. pipe line.

GUTHRIE CENTER, IOWA.—A brick pumping station is to be erected on the site of the old building and adjoining the building of the City Electric Light & Power Co.

EVELETH, MINN.—The contract for laying water pipes in Central Division No. 2 has been awarded to the PASTORET & LAWRENCE CO., of Duluth, Minn., at about $9,000.

MINNEAPOLIS, MINN.—The following bids were received on Sept. 10 for the enclosure of the water tower on Lowry Hill: James Leck, $13,326; Charles Hagstrom, $12,912; E. J. Davis, $14,900; Pike & Cook, 416 South Fifth St., $11,236, and E. G. Evensta, $13,827.

AUSTIN, MINN.—We are officially advised that all bids were rejected on Sept. 12 at Austin, Minn., for improvements to water-works, and that new bids for 14,500 ft. of 16-in. c.-i. gravity pipe line and a 290,000-gallon reinforced-concrete reservoir will be received up to 8 p. m., Sept. 28, at the office of the Water and Light Board, Austin. Plans are on file with the Water and Light Board and with O. Claussen, German American Bank Bldg., St. Paul, Minn., Consult. Engr.

DODGE CITY, KAN.—W. H. Rosencrans, Engr., 110 La Salle St., Chicago, has completed plans for two dams and reservoirs for the Kansas Irrigation & Development Co., Dodge City. A. M. Epstein, Denver, Colo., will receive estimates. The structures are to be of concrete and earth construction and to cost about $500,000.

PITTSBURG, KAN.—C. H. Green, of Cartlage, Mo., has been selected to prepare plans for water-works. O. T. Jones is City Clerk.

COZAD, NEB.—The contract for constructing water-works has been awarded to the KATZ-CRAIG CONSTRUCTION CO., of Omaha, Neb., at $34,400. Other bids were received as follows: Cook Construction Co., Des Moines, Iowa, $34,824; Des Moines Bridge & Iron Co., Des Moines, Iowa, $34,597; The National Co., Indianapolis, Ind., $34,978; S. C. Brooks & Sons Co., Jackson, Mich., $34,897, and C. Jaeger, Rich Hill, Mo., $35,740. Hershey S. Welch is Consult. Engr., North Platte, Neb.

CLARKS, NEB.—The contract for constructing water-works, from plans of Martz Bros., of Seward, Neb., has been awarded to KATZ-CRAIG CONTRACTING CO., of Omaha, Neb., at $8,248.

NORTH PLATTE, NEB.—The Secretary of the Interior, at Washington, D. C., has awarded contract to JESSE HINDS, of Bayard, Neb., for the construction of a high line lateral in connection with the North Platte irrigation project, Neb.-Wyo. The work involves excavating approximately 107,500 cu. yds. of material, and the contract price is $12,315. The location of this canal is about 13 miles northeast of Scottsbluff.

CARRINGTON, N. DAK.—The contract for extending water mains has been awarded to GILBERT W. HAGGERT, of Fargo, N. Dak., for $60,000. L. P. Wolff, Essex Bldg., St. Paul, Minn., is Engr.; H. L. Winterer is City Audr. Bids were received on Sept. 9.

GRAND FORKS, N. DAK.—Bids were received as follows by the City Council on Sept. 5 for remodeling and reconstructing the present slow sand filter: New York Continental Jewell Filtration Co., New York, N. Y., $18,800; PITTSBURG FILTER MFG. CO., Pittsburg, Pa., $19,100 (awarded contract); Norwood Engine Co., $19,200.

EAGLE LAKE, TEX.—A syndicate of land owners has been organized to construct a large system of canals and ditches for the irrigation of 10,000 acres, all of which will be planted in rice, near Eagle Lake. The syndicate is headed by W. T. Eldridge, of Sugarland, Tex., who has large plantations in this section. Plans for the proposed canal system and the pumping plants have been adopted. They call for the expenditure of about $130,000. The water will be obtained from the Colorado River where a large pumping plant will be installed. It will be conducted through a canal into the body of water called Eagle Lake, from which the town takes its name. Another pumping plant will raise the water from the lake and deliver it into another canal which will carry it through the lands of the syndicate for distribution over the fields of rice. The lake will be used as a water storage reservoir and will be kept constantly filled so that there shall be no shortage of water at any time during the year. All the tract of 10,000 acres that is to be planted in rice can be irrigated. It will be plowed and prepared for a crop by the time the canals are finished and the pumping plants are installed.

GALVESTON, TEX.—Bids are asked by the Board of City Commissioners until Sept. 29 for the construction of a 30-in. c.-i. water main, 96 ft. long, laid at a depth of 15 ft. below mean low tide between the drawbridge piers of the Galveston County Causeway. A. T. Dickey is City Engr.; John D. Kelley is City Secy.

ALVA, OKLA.—Bids will be received by the City Clerk until 4 p. m., Oct. 4, for the construction of a steel water tank to cost $8,000. Specifications may be obtained from the City Clerk or from A. K. Hubbard, City Engr. Bids will be received at the same time by the City Clerk for about 6,600 ft. of extensions to water mains.

LAWTON, OKLA.—E. R. KIRBY, of Lawton, has secured the contract for all three sections of the proposed improvements to the water-works at the following totals: Dam on Medicine Creek, $63,244; Squaw Creek improvement, $39,403, and north addition to water-works, at $49,163. Z. M. Seifres, City Engr.

VILLAGROVE, COLO.—J. H. Parsons, of Villagrove, Dr. G. W. Garwood, of Denver, and others are interested in the construction of a reservoir on Kerber Creek, six miles above Villagrove, to hold 400,000,000 cu. ft. of water for irrigation purposes.

DENVER, COLO.—W. P. Robinson, Mgr., of the Denver Union Water Co., has announced that the company is having plans drawn by its engineers for improvements to be made to the system during the coming year. These will increase the capacity of the plant to meet the needs of a growing city. Construction of a main on East 14th Ave., between Humboldt and Logan Sts., has been started. This extension, with a 24-in. main now being laid on Speer Boulevard, will cost $100,000. The East 14th Ave. extension will give a larger flow and better pressure to the Capitol Hill district. Improvements in South Denver, constructed under authority of the Public Utilities Commission, has been completed. The water company will connect this main with its system when notified to do so.

LAS VEGAS, N. MEX.—Metcalf & Eddy, 14 Beacon St., Boston, Mass., Consult. Engrs. for the Aqua-Pura Co., of Las Vegas, have completed plans and specifications for an arched concrete dam for the proposed storage reservoir of the company, it is stated. The dam is designed with an ultimate height of 95 ft., but it will only be erected to a height of 50 ft. at present; it will be of either reinforced concrete or of rubble masonry. The design will be 15½ ft. wide at the base and with the concrete dam 4 ft. wide at top, and the masonry dam 6 ft. wide at top. It will be built with a radius of 250 ft., the vertical face of the dam being upstream. The total cost is estimated at about $40,000. It will furnish storage space for approximately 60,000,000 gallons. We are officially advised that bids were received on Sept. 8 and are under consideration.

*OROVILLE, WASH.—Bids are asked by E. S. Taylor, Town Clerk, until Oct. 17 for furnishing material and constructing in whole or in part of a water-works system consisting of a well, pumping machinery, reservoir and pipe line.

SPOKANE, WASH.—The contract for 79,500 ft. of Kalamein iron pipe for the water mains which the city is to lay to Cannondale and Lidgerwood was awarded on Sept. 7 to the HOLLY-MASON HARDWARE CO. for $59,445.

*HOLTVILLE, CAL.—The FAIRBANKS, MORSE CO., of Los Angeles, has secured the contract for a pump and engine for the water-works at $3,000, and the CRANE CO., of Los Angeles, for furnishing pipe and fittings at $12,000.

SANTA BARBARA, CAL.—The citizens on Aug. 31 voted to issue $200,000 of bonds to complete the city water tunnel under Santa Ynez Mountains north of city to tap headwaters of Santa Ynez River and secure a water supply for city.

SALT LAKE CITY, UTAH.—It is planned to reclaim 106,880 acres of arid land in Grand County. The Grand Mutual Development Association, of Denver, Colo., is interested. An application has been filed by this company with the State Engineer at Salt Lake City asking for right to appropriate 100 cu. ft. per second of the flow of Grand River in Utah to be used for irrigation purposes. The water will be taken from the river at a point not far from Cisco on the line of the Denver & Rio Grande R. R. The length of the diverting channel will be 70 miles, top width of ditch 30 ft., bottom width 10 ft. and depth of water 5 ft. The water is to be diverted from the river by a water-power pumping plant and a pipe line about 60 ins. diameter.

SALT LAKE CITY, UTAH.—Bids will be received at the office of the Board of Public Works, Salt Lake City, Utah, until 7 p. m., Oct. 7, for the work of constructing an 18-in. c.-i. water main in City Creek Canyon, using the following approximate quantities of pipe: 20-in., 300 ft.; 18-in., 17,200 ft. H. G. McMillan is Chn.; George F. McGonagle is City Engr.

REGINA, SASK.—See item under Streets and Roads.

CHIHUAHUA, MEXICO.—An application to build a dam for irrigation purposes on Arroyo Seco, 20 miles northeast of Neuvas Casas Grandes, has been made to the State Government by M. C. Liquornik. The proposed dam will have a capacity for irrigating about 10,000 acres of land.

SEWERS.

*(*Denotes that this work is advertised in Engineering News.)*

WAKEFIELD, MASS.—A contract has been awarded JAMES L. BRYNE for the construction of the West Chestnut St. sewer extension, from Cedar St. to Parker Road.

BOSTON, MASS.—Bids will be received until Sept. 26 by Louis K. V. Rourke, Supt. of Sts., for the construction of a sewer and surface drain in Danville and Anesworth Sts.

Bids will be received until Sept. 27 by Louis K. Rourke, Supt. of Sts., for constructing a sewer and surface drain in Rockwood and Rosedale Sts.

PITTSFIELD, MASS.—The Board of Aldermen has passed an ordinance appropriating $31,250 for sewer extension.

NORTHAMPTON, MASS.—Plans have been completed for the construction of a sewer 6,000 ft. long from Joseph Haley's land in Bay St., across Mill River to the west side in Florence.

PROVIDENCE, R. I.—Bids are asked for the construction of a sewer in Atuella Ave. to connect with the sewer in Kinsley Ave. Otis F. Clapp is City Engr.

ALBANY, N. Y.—Contracts were awarded Sept. 13 by the Board of Contract and Supply for constructing sewers in Manning Boulevard and in the Northern Boulevard to M. F. DOLLARD, of this city, at $5,458. Walter Melius is City Engr.

LESTERSHIRE, N. Y.—Plans and specifications are being prepared for the extension of the Main St. sewer, beginning at the end of the brick pavement.

TROY, N. Y.—The following bids have been received by the Board of Contract and Supply for constructing sewers in Albia and Ford Aves., from (a) McDonough Construction Co., (b) H. Winnie, (c) Robert Gleason: Albia Ave., 8-in. pipe, (a) $1.40, (b) $1.37; 6-in. laterals, (a) 60 cts., (b) 87 cts.; manholes, (a) $40, (b) $47. Ford Ave., 8-in. pipe, (b) $2.30, (c) $3.10, (a) $2.50; 6-in. laterals, (b) $2.23, (c) 92 cts., (a) 60 cts.; manholes, (b) $77, (c) $65, (a) $50. James M. Riley is Secy. to the Board.

BROOKLYN, N. Y.—Bids will be received by the Park Board, at the Arsenal Bldg., Fifth Ave. and 64th St., until 3 p. m., Sept. 29, for furnishing and delivering 30 c.-i. heads including gratings for sewer basins at Prospect Park workshops. Charles B. Stover is Pres.

NEW YORK, N. Y.—Bids are asked by Alfred E. Steers, Pres. Boro. of Brooklyn, until 11 a. m., Oct. 5, for constructing sewers in various streets in Brooklyn.

DUNKIRK, N. Y.—Contract has been awarded to E. J. KUEHN, of Dunkirk, for the construction of a sewer in West Front St., Bingham Road and an extension of the Deer St. sewer.

SYRACUSE, N. Y.—Bids will be received by the Board of Contract and Supply until 1.30 p. m., Sept. 26, for constructing a 15-in. pipe sewer in Stolp Ave., from Dudley St. to Hubbell Ave.; also a 12 and 15-in. sewer in Hubbell Ave. and a 12-in. sewer in Gordon Ave. Henry C. Allen is City Engr.

KEYPORT, N. J.—We are officially advised that the town has voted to issue bonds for constructing a sewer system embracing about nine miles and to cost $75,000. Marcus B. Taylor is Town Clerk; Clyde Potts, 30 Church St., New York, is Engr.

WILLIAMSPORT, PA.—Carroll P. Bassett, Sanitary Engr., has been engaged by the city to prepare plans for constructing the East End sewer.

POTTSTOWN, PA.—Plans are being drawn for the construction of a sewer system and disposal plant for this city. It is stated that action was taken because the borough has received notice from the State Board of Health that the pollution of the Schuylkill River must cease. Estimated cost, $250,000.

PITTSBURG, PA.—An ordinance authorizing the construction of a sewer in Lopez Alley to the present sewer in Loretto St., has been passed by the Select Council. E. J. Martin is Clerk to the Council.

CARLISLE, PA.—A report from the Special Committee has been made to the City Council in favor of constructing sewers in Mully Grub St. and Spring St., together with a disposal plant. Estimated cost, $80,000.

WILMINGTON, DEL.—The City Council has appropriated $30,000 for the construction of a sewer in a section of the Ninth Ward west of Market St. It will be of concrete and will be 6½ ft. in diameter at the lower end and 5¼ ft. at the upper end.

BALTIMORE, MD.—Bids were received on Sept. 7 by the Board of Awards for Contract No. 55 for lateral sewers in District No. 14, and Contract No. 56 for sewage pumping station. The bids were as follows: Contract No. 55—B. F. Sweetan & Son, Baltimore, Md., $67,671; William McCarthy & Co., American Bldg., Baltimore, $79,628; Irwin Brothers, 330 North Gay St., Baltimore, $80,575; James Ferry & Sons, Louisville, Ky., $91,366. Contract No. 56—Dietz Engineering Co., 50 Church St., New York, $17,360; Mead-Morrison Mfg. Co., 149 Broadway, New York, $19,800; Guarantee Construction Co., 140 Cedar St., New York, $20,500; Conveying Machinery Co., 120 Liberty St., New York, $29,179. Calvin W. Hendricks is Ch. Engr.

BALTIMORE, MD.—A contract has been awarded WILLIAM SHIPLEY, 3404 Chestnut Ave., Baltimore, at $4,000, for constructing a private sewer, twelve, ten and eight inches in diameter.

BALTIMORE, MD.—Contracts for the construction of sewers have been awarded to B. F. SWEETEN, of Baltimore, Bd., at $67,371 and the DIETZ ENGINEERING CO., New York, at $17,360.

CENTERVILLE, MD.—The contract has been awarded the HAYMAN CONSTRUCTION CO., 1419 Mount Royal Ave., at $8,612, to construct about 12,500 ft. of 8, 10 and 12-in. sewers, 2,400 ft. of house connections and 45 manholes. Morse & Cockey, Continental Bldg., Baltimore, Md., are Consulting Engrs.

PARKERSBURG, W. VA.—An ordinance has been passed and specifications accepted for a storm water sewer in Tefft, Latrobe and Charles Sts. Estimated cost, $3,142.

CLARKSBURG, W. VA.—The contract for a new sewerage system for this city was let on Sept. 15 to JOHN I. DICK, of Scottdale, Pa. Estimated cost, $20,000.

GREENVILLE, S. C.—The contract has been awarded for constructing six miles of sewer by the City Council to LONG & SULLIVAN, of Bessemer, Ala., at $21,861. Other bids were: Bowe & Page, Augusta, Ga., $22,698; Bryan & Co., Jacksonville, Fla., $23,196; J. D. Hunt, Hickory, N. C., $24,853; Johnson & Mathews, Florence, S. C., $26,763; L. C. Mishler, Chattanooga, Tenn., $27,329; Edwards Construction Co., Greensboro, N. C., $23,737; C. K. Christburg, Rock Hill, S. C., $31,135; Dysard Construction Co., Atlanta, Ga., $22,574; F. J. McGwire, Norfolk, Va., $23,492; O'Conner & Gary, Knoxville, Tenn., $31,280; Municipal Engineering & Construction Co., Chattanooga, Tenn., $26,957; L. W. Hancock & Co., Louisville, Ky., $33,005; Stancill & Firth, Charlotte, N. C., $23,406. C. P. Ballinger is City Engr.

ATLANTA, GA.—See item under Water Supply—Irrigation.

MONTGOMERY, ALA.—Bids will be received by the City Treasurer until noon, Sept. 26, for constructing sanitary sewers in Highland Ave., from Jackson St. to Moggie St., and in Hall St., from Highland Ave. to Lake St. A. R. Glechrist is City Engr.; Robert Tait is City Treas.

FRANKFORT, KY.—The contract for constructing the storm sewer of reinforced concrete in Water St. has been awarded to HOWARD BELL, of Lexington, Ky.

JEFFERSONVILLE, KY.—Bids will be received until Oct. 5 by the Town Board for constructing a sewer in Market and Jackson Sts.

CINCINNATI, OHIO.—Bids will be received by the Board of County Commissioners until noon Sept. 30, for constructing a sewer in Race Ave. Plans and specifications are on file in the office of the County Commissioners. Fred Dreihs is Clerk.

STUBENVILLE, OHIO.—The City Council has passed a resolution for constructing a sewer in North Sixth St., from Washington St. to North St. Hugh W. Patterson is City Clerk.

ZANESVILLE, OHIO.—The City Council has passed an ordinance providing for the construction of a storm and sanitary sewer in Pine St. Plans and specifications are on file with the Department of Public Service. Neil Starkey is City Clerk.

UPPER SANDUSKY, OHIO.—All bids for the construction of the Warpole sewer were rejected as illegal and new bids will be received until Sept. 24.

ALLIANCE, OHIO.—Plans have been drawn for the construction of a storm sewer from the old fair grounds to Washington St. A. Q. Kotte is City Engr.

HAMILTON, OHIO.—A contract has been awarded the GARVER CONTRACTING CO. for constructing a concrete and vitrified pipe sewer in Schuler Ave., Vine St. and Butler St., at $15,000. F. E. Weaver is City Engr.

HUDSON, OHIO.—Bids are being asked for the construction of a sewage disposal plant of reinforced concrete. J. W. Ellsworth is City Engr.

DETROIT, MICH.—The Common Council of Detroit has authorized the Department of Public Works, J. J. Haarer, Comr., to arrange for building a sewer for the use of the Universal Motor Car Co. Estimated cost, $3,000.

GROSSE POINTE, MICH.—Plans for a trunk sewer recently were presented to the Common Council, providing for Grosse Pointe, Grosse Pointe Park and Grosse Pointe Farms. The plans include a trunk sewer to run through Jefferson Ave., connecting with the one being built to the city limits by Detroit. Estimated cost, $100,000.

CHICAGO, ILL.—Bids were received Sept. 7 by the Board of Local Improvements for constructing the North Ave. sewer, from North 48th Ave. to North 64th Ave. The Ryan Co. was the lowest bidder at $52,495.

DIXON, ILL.—Bids are being asked by the Board of Local Improvements for the construction of a sewer on North Ottawa Ave.

MOLINE, ILL.—Bids will be received until 10 a. m., Sept. 24, by the Board of Local Improvements for constructing a sewer in the Southwest District of the Fifth Ward. Charles G. Anderson is City Engr.

MUSCATINE, IOWA.—The contract has been awarded for the construction of a sewer in District No. 20, to AUGUST KORNEMAN, of this city, at $4,020. Other bidders were: R. K. Smith, of Muscatine, $4,405, and the Independent Construction Co., Davenport, Iowa, $4,141.

EMMETSBURG, IOWA.—Bids will be received until Oct. 3 by T. E. Rutledge, City Clk., for constructing sewers, repairing 4,792 ft. sewer, of salt-glazed vitrified pipe, eleven manholes and five flush tanks.

PIPESTONE, MINN.—Bids will be received until Oct. 3 by S. W. Funk, City Recdr., for constructing sewers in Districts Nos. 8, 15, 16, respectively, requiring in all 2,036 lin. ft. 8-in. sewer pipe. Loweth & Wolf are Engrs., St. Paul.

HASTINGS, MINN.—Bids will be received until Sept. 26 by J. H. Twichell, City Clk., for constructing sewers and water-works in Sixth, Seventh, Pine and Second Sts. Charles Hankes is City Clerk.

CARRINGTON, N. DAK.—The contract for the construction of a sewer system and an extension of the water system 1½ miles long, has been awarded GILBERT HAGGART, of Carrington, at $60,000.

FORDYCE, ARK.—Plans have been drawn by Wm. J. Parks, of Pine Bluff, Engr., for the construction of city sewers. Estimated cost, $30,000.

BRYAN, TEX.—A survey is being made of Main St. for the construction of a trunk sewer.

TERRELL, TEX.—Contract has been let by the Board of Managers of the Asylum here for the construction of a sewage disposal plant to DICKSON & BRITTON, of Greenville, Tex.

*MUSKOGEE, OKLA.—Bids are asked by Charles Wheeler, Jr., City Clerk, until 5 p. m., Oct. 17, for constructing a storm sewer in District No. 12. The work consists of 2,000 cu. yds. of brick or concrete masonry in 3-ft. to 5-ft. sewers; 20,000 cu. yds. of excavation, and 16,000 ft. of tile pipe, 12 to 33 ins., with all necessary manholes and other appurtenances.

PULLMAN, WASH.—Bids will be soon asked for the construction of a sewer in West Main St.

TACOMA, WASH.—The City Council has passed a resolution providing for a sewer in North Sixth and North Seventh Aves. and L St., all in Sewer District No. 195. F. L. Davis is City Engr.

PORTLAND, ORE.—The City Council has passed a resolution providing for a sewer in Adler St., of 12-in. vitrified pipe. Plans are filed in the office of the City Auditor. Estimated cost, $11,012.

CORVALLIS, ORE.—Contract has been awarded for the construction of three miles of sewers of reinforced concrete, 24 to 76 ins. in diameter, to J. A. SAURET, of Bellingham, Wash., at $115,000.

BRAWLEY, CAL.—Bids for furnishing plans and specifications for a municipal system will be received until Oct. 3. The cost of plans is not to exceed $900 and sewer system $18,000. W. H. Whelan is City Clerk.

SAN FRANCISCO, CAL.—The contract for the construction of sewers and appurtenances in San Jose Ave., between Regent St. and Sherman Ave., has been awarded by the Board of Public Works to JOHN W. FLINN. J. L. McCormick is Secy.

The Board of Supervisors has passed ordinances providing for constructing sewers in Sections C and F of the North Point main sewer,, each section to cost $105,000.

TULARE, CAL.—The contract to construct the sewer system here has been awarded to the STANLEY CONSTRUCTION CO., of San Francisco, at $19,820. The contract to furnish the pipe was awarded to N. CLARK & SONS, of San Francisco. The work includes laying of 15 miles of pipe and the construction of a septic disposal tank.

ORANGE, CAL.—Bonds for the sum of $16,000 have been voted for a municipal sewer system. Plans will be prepared and contracts awarded about Jan. 1.

PORTERVILLE, CAL.—The City Council will receive bids until Sept. 26 for the extension of the sewer system. Estimated cost, $60,000.

REGINA, SASK.—See item under Streets and Roads.

SASKATOON, SASK.—Contract for the construction of a storm and sanitary sewer for the University of Saskatchewan has been awarded to S. E. McMANUS & SON.

SWIFT CURRENT, SASK.—Bids will be received until Sept. 27 by G. W. Bilbrough, Secy.-Treas., Swift Current, Sask., for the following contracts: (C) Power-house, (D) settling tank and intake, (E) pumping machinery (compressed air system), (F) electrical machinery and (G) producer gas plant.

STREETS AND ROADS.

(*Denotes that this work is advertised in Engineering News.)

BOSTON, MASS.—Bids are asked until Sept. 27, by Louis K. Rourke, Supt. of Streets, for macadam road and artificial stone sidewalks in West Park St. and Westcott St.

HARTFORD, CONN.—Contracts for State road work, bids for which were received on Sept. 2, have been awarded by the State Highway Commissioner as follows:

Town of Beacon Falls—2,325 lin. ft. gravel-telford road, including three 15-in. and one 18-in. tile culverts, to MERRITT & BUSH, Stamford, Conn., $1.25 per lin. ft. for gravel; $2 for telford; $1.25 for rubble drain, and $6 per cu. yd. for masonry walls.

Town of Enfield—3,705 lin. ft. macadam-telford road on the Hartford-Springfield Turnpike, to AMOS D. BRIDGE'S SONS, Inc., Hazardville, Conn., $2.49 per lin. ft. for macadam; $3.49 for telford; $1 for rubble drain, and $3 per sq. yd. for brick work.

Town of Cromwell—On the Hartford-Saybrook Turnpike, to the PIERSON ENGINEERING & CONSTRUCTION CO., Bristol, Conn., for resurfacing about 4,200 lin. ft. of road with a bitulithic treatment.

Town of Haddam—On the Hartford-Saybrook Turnpike, to ROGER KENNEDY, for resurfacing about five miles of graded and gravel road with trap-rock splinters.

HARTFORD, CONN.—Bids for the construction of state road work will be received at the office of the State Highway Commissioner, Capitol, until 2 p. m., Sept. 23, as follows:

Town of Manchester—8,508 lin. ft. gravel-telford road on the Hartford and Willimantic Turnpike, including seven 15-in. and one 18-in. tile culverts. The plans and specifications are at the Town Clerk's office, Manchester Center.

Town of Chester—4,618 lin. ft. graded-telford road, including two 18-in., three 15-in. and one 24-in. tile culverts and one reinforced concrete arch culvert. The plans and specifications are at the Town Clerk's office.

Town of Easton—7,635 lin. ft. of graded road, including three 15-in. and six 18-in. tile culverts. The plans and specifications are with J. H. Candee, First Selectman, Easton.

Town of Cromwell—6,000 lin. ft. gravel-telford road, including one 24-in. and one 18-in. tile culverts and one I-beam reinforced concrete culvert. The plans and specifications are at the Town Clerk's office.

Town of Woodbridge—2,200 lin. ft. gravel-telford road, including three 15-in. tile pipe culverts. The plans and specifications are with R. C. Newton, First Selectman, Westville.

Town of Warren—3,341 lin. ft. graded-telford road, including one tile culvert. The plans and specifications are with William Forestelle, First Selectman.

HARTFORD, CONN.—Contracts for the construction of state road work, bids for which were received on Sept. 2, have been awarded by the State Highway Commissioner as follows:

Town of Simsbury—1,562 lin. ft. macadam-telford road to ANTONIO VITO, of Thompson, Conn., at $3.26 per lin. ft. for macadam; $3.76 for telford; 98 cts. for rubble drain; 75 cts. per sq. yd. for cobble gutters; $5.50 per cu. yd. for masonry walls.

Town of East Granby—4,668 lin. ft. macadam-telford road, including two 30-in. and two 15-in. tile culverts and one reinforced-concrete arch culvert, to ANTONIO VITO, Thompson, Conn., $5.76 per lin. ft. for macadam; $5.96 for telford; 98 cts. for rubble drain; $5.50 per cu. yd. for masonry walls.

Town of Bloomfield—20,908 lin. ft. macadam-telford road, including six 12-in., four 15-in., two 24-in., and two 18-in. tile culverts, to A. D. BRIDGE'S SONS, Inc., Hazardville, Conn., $1.61 for macadam; $2.31 for telford; $1 for rubble drain, and $6 per cu. yd. for masonry walls.

HARTFORD, CONN.—The Court of Common Council has voted to macadamize portions of the following streets during the season of 1911: Boulevard, Pliny St., Whitney St., Windsor St., Blue Hills Ave., Capitol Ave. extension, Chadwick Ave., Clermont St., Elizabeth St., Greenfield St., Harvard St., Holcomb St., Homestead Ave., McLean St., Mountain St., Natalie St., Maple St., Prospect Ave., Stedman St., Summit St., Zion St., Victoria Road, White St. and Mansfield St.

NEW YORK, N. Y.—Bids will be received until 2 p. m., Sept. 29, by Kingsley L. Martin, Bridge Comr., for furnishing and delivering wood paving blocks to the University Heights Bridge.

NEW YORK, N. Y.—Bids will be received until noon, Sept. 27, by George Cromwell, Pres. Boro. of Richmond, for constructing flag or cement sidewalks, etc., on various streets in the Boro. of Richmond.

Bids are asked by Cyrus C. Miller, Pres. Boro. of Bronx, until 11 a. m., Sept. 27, for regulating and paving with sheet asphalt on concrete foundation various streets in the Boro. of Bronx.

The following bids were received on Sept. 14 by Alfred E. Steers, Pres. Boro. of Brooklyn, for regulating and repaving with asphalt on a concrete foundation the roadway of the following streets and avenues: (1) Bayard St., from Union Ave. to Manhattan Ave., and from Graham Ave. to Humboldt St.; (7) Warren St., from Clinton St. to Court St., and from Smith St. to Third Ave.: Uvalde Asphalt Paving Co., 1 Broadway, New York, (1) $12,444, (7) $21,296; Cranford Co., 52 Ninth St., Brooklyn, (1) $12,557, (7) $20,127; Boro Asphalt Co., 1301 Metropolitan Ave., Brooklyn, (1) $12,116; Barber Asphalt Paving Co., 30 Church St., New York, (1) $12,696, (7) $21,010; Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., Brooklyn, (7) $19,181. (8) Constructing cement sidewalks on both sides of 86th St., between First and Second Aves., where not already done and on various other streets in Brooklyn; (21) regulating, grading, curbing and laying sidewalks on Montgomery St., from Bedford Ave. to Rogers Ave.; (4) regulating and repaving with iron slag on a concrete foundation the roadway of Pioneer St., from Richards St. to Columbia St.; (20) regulating and grading Lott Ave., from East 98th St. to Junius St., setting curb from Amboy St. to Bristol St., and from Watkins St. to Junius St., and laying sidewalks from Watkins St. to Junius St., where not already done; (17) for regulating and paving with second-hand granite on a sand foundation the strip 20 ft. wide in the roadway of Flatbush Ave., from Ave. N to Ave. U: The Hangeri Co., (8) $11,499; M. J. O'Hara, (8) $12,313; W. L. Castle, (21) $11,060, (20) $13,017; Cooper & Evans, (21) $9,588; John M. Fox, (21) $10,857; F. J. Gallagher, (21) $14,440, (17) $14,663; Uvalde Asphalt Paving Co., 1 Broadway, (4) $12,186; Richard L. Russel, (4) $11,502; McFarland Contracting Co., (4) $11,428; Arthur Wright, (20) $9,307; P. T. McDermott, (20) $10,493; Leo E. Kelly, (17) $11,541; Boro Asphalt Co., 1301 Metropolitan Ave., Brooklyn, N. Y., (17) $12,298; H. B. Dedy, (17) $12,014; J. J. Cuynan, (17) $10,216; Norton & Gorman Contracting Co., (17) $11,257.

BUFFALO, N. Y.—A resolution has been introduced in the Common Council directing Francis G. Ward, Comr. of Public Works, City Hall, to advertise for bids for the repaving of Mohawk St., between Genesee and Morgan Sts., with asphalt and stone, in accordance with plans and specifications on file in the Bureau of Engineering Offices, Municipal Bldg.

TROY, N. Y.—Bids will be received until 11 a. m., Sept. 23, by the Board of Contract and Supply, for the labor, services and materials required in paving, regulating, curbing, grading and improving the alley between Congress and Ferry Sts., and east of Seventh Ave. James M. Riley is Secy. of Board.

SYRACUSE, N. Y.—Bids will be received by the Board of Contract and Supply until 1.30 p. m., Sept. 26, for furnishing materials and paving Landon Ave., and the south side of Warner Ave., from Salina St. to Webster Ave. John J. Halloran is Clk. of Bd. and George J. Mety is City Clk.

*RIDGEFIELD PARK, N. J.—Bids will be received until Oct. 3 by the Board of Trustees of the Village of Ridgefield Park, for grading, curbing and paving with Amiesite macadam and the construction and erection of manholes, etc. E. S. Carr is Pres. and W. H. Abbott is Clk. of Bd.

PITTSBURG, PA.—The following contracts were awarded by the Board of County Commissioners, on Sept. 10, for rebuilding and reconstructing the Glassport Road, from Glassport to Elizabeth, a distance of about three miles, to A. ANCORRANI, whose bid was $71,541, and for rebuilding the Wible Run Road, from the Evergreen Road to St. Augustine cemetery, about one mile, to EDWARD VERO, for $21,915. The Glassport Road is to be of brick and the Wible Run of macadam.

MANNINGTON, W. VA.—The JAMISON COAL & COKE CO. has been awarded the contract for the building of two miles of model road to connect Farmington and Fairview in Marion County, at $10,000, exclusive of bridges and culverts. The work will be done under the immediate direction of the County Road Engineer and the general direction of Charles P. Light, State Road Comr.

*BIRMINGHAM, ALA.—Bids will be received by Maury Nicholson, City Engr., until 11 a. m., Oct. 5, certain brick paving, street grading, retaining walls, etc.

NATCHITOCHES, LA.—The contract for cement walks and concrete curbing was awarded recently by the City Council to G. W. PRICE & CO., of Beaumont, Tex., at $15,000.

MEMPHIS, TENN.—The Board of City Commissioners on Sept. 6, awarded the contract to the MEMPHIS ASPHALT CO., of Memphis, at $22,143, for paving East St., from Coward to Union Sts. J. H. Weatherford is City Engr.

BELLAIRE, OHIO.—Bids will be received by the Director of Public Service of the city of Bellaire, Sept. 26, for furnishing the necessary labor and materials for the improvement of the following streets: Cherry Alley from Crescent St. to 31st St., by grading and paving; Trumbull St. from 36th St. to Alley H, by grading and constructing the necessary culverts and retaining walls. R. E. Crow is Clk.

CHILLICOTHE, OHIO.—Bids are asked by Robert D. Alexander, County Audr. of Ross County, until noon, Sept. 26, for all labor and materials necessary to build a pike and the necessary culverts for road in Huntington Township, between Summit Hill and Nipgen, Ohio, known as the Limestone Road.

CINCINNATI, OHIO.—The contract for improving Harrison Ave. with granite paving, from Fischer's West line to the west corporation line, has been awarded to THOMAS EVANS, of Cincinnati, at $84,314. The engineer's estimate was $97,105.

At a meeting, held Sept. 9, the City Council awarded to the MIDLAND CONSTRUCTION CO. the contract for the construction of the City's share of the Horton St. good road, which is to extend from Tenth and Horton Sts., south to the Evergreen Rock road on the Boulevard. The contract is a joint one between the city and county, as the district to be improved lays both in the city and Scott Township, and the Midland Co. was given the contract recently for their part of the work also. The prices quoted in both bids were the same and in each case they were the only bidders. The entire contract price is $4,647, of which the city's share will be $2,158. Edwin Henderson is City Clerk.

CLEVELAND, OHIO.—Bids are asked by the Board of County Commissioners of Cuyahoga County, until 11 a. m., Oct. 1, for repairing the Detroit Road by paving it. Frank R. Lander is County Surv., and John F. Goldenbogen is Clk. of Bd.

OHIO.—Bids will be received at the office of the Commissioners of Franklin County, Columbus, until noon, Sept. 28, for grading and macadamizing three miles of road in Madison Township, under the provisions of the State Highway Law. Estimated cost, $12,418.

Bids will be received at the office of the Commissioners of Butler County, at Hamilton, until noon, Sept. 27, 1910, for grading and macadamizing 2.1 miles of road in St. Clair Township, under the provisions of the State Highway Law. Estimated cost, $16,229.

Bids will be received at the office of the Commissioners of Hamilton County, Cincinnati, until noon, Oct. 4, for grading and macadamizing 2.9 miles of road in Whitewater Township, under the provisions of the State Highway Law. The estimated cost is $28,562.

Bids will be received at the office of the Commissioners of Sandusky County, at Fremont, until noon, Sept. 23, for grading and macadamizing 1.54 miles of road in Sandusky and Rice Townships, under the provisions of the State Highway Law. The cost is estimated at $14,126.

Bids will be received at the office of the County Commissioners of Darke County, on Sept. 30, for grading and macadamizing .38 miles of road in Greenville Township, under the provisions of the State Highway Law. The cost of the work is estimated at $2,873.

Also for grading and macadamizing 1.5 miles of road in Neave and Van Buren Townships with bituminous macadam. Estimated to cost, $6,886.

Also for grading and macadamizing 2.08 miles of road in Greenville Township. Estimated to cost, $12,725.

Bids will be received at the office of the Commissioners of Knox County, Mount Vernon, until noon, Sept. 29, for grading and macadamizing 2.5 miles of road in Millar Township, under the provisions of the State Highway Law. Estimated cost, [illegible]00. J. C. Wonders is State Highway Comr., at Columbus.

COLUMBUS, OHIO.—The contract for the improvement of North High St., [illegible] Fifth Ave. to Doderidge St., by paving [illegible] sheet asphalt, was awarded by the Board of Control, on Sept. 15, to the ANDR[illegible] ASPHALT PAVING CO., at $70,000. The work will not be started until some agreement is made with the Columbus Railway [illegible] Light Co., relative to paving between [illegible] street car tracks. The list of bidders was given last week.

MASSILLON, OHIO.—The contract for paving East Cherry and North Erie [illegible] was awarded to PHILIP DIEFENBACHER & SONS by the Board of Control on Sept. 1. Other contracts were let for the curbing and guttering of eight streets, as follows: Pearl and Dwight Sts., to GEORGE P. WILLIAMS; Wissmar, South Waechter, Green [illegible] Walnut Sts., and Woodland and Commonwealth Aves., to URBAN & SCHOTT.

SPRINGFIELD, OHIO.—The contracts for paving East High St. and College Ave. were recently awarded to EDWARD RYAN, of Springfield, at $24,878, and $11,[illegible] respectively. The material to be used on both streets is Trinidad Lake asphalt with Nelsonville block between the car tracks set in asphalt filler. There will be an 18-in. cement gutter on East High St., but this is already down in College Ave.

YOUNGSTOWN, OHIO.—Bids were received on Sept. 2 by the Board of County Commissioners for the improvement of the Petersburg and Youngstown Road. The contract was awarded to G. A. GIALDINI & CO., Girard, Ohio, at $14,820. The award was made under the supervision of the State Highway Department, James C. Wonders, Comr., at Columbus.

BRAZIL, IND.—The City Council has granted a petition to improve the Hendrix St. road with a surface of crushed rock, 12 ins. deep. The road will be three miles long. Bids will be asked for soon.

COLUMBUS, IND.—The Commissioners of Bartholomew and Decatur Counties are preparing to ask for bids for the construction of a gravel road on the county line between Haw Creek and Jackson Township of the respective counties.

*DECATUR, IND.—Bids will be received on Sept. 27, by the City, for improving two miles of street pavement. H. M. De Voss is City Clk.

NEW ALBANY, IND.—It is stated that WILLIAM O. SWEENEY, of Jeffersonville, has been awarded the general contract for sidewalk improvements for the remainder of the year, by the Board of Public Works. Mr. Sweeney was the only bidder, his figures being 14¾ cts. per sq. ft. for sidewalks, and 3¾ cts. per sq. ft. for grading and sodding grass plots.

SPENCER, IND.—Bids will be received by the Commissioners of Owen County until noon, Oct. 4, for the construction of a macadamized road in Washington Township. G. W. Edwards is County Audr.

VINCENNES, IND.—The Commissioners of Knox County will receive bids until 2 p. m., Oct. 4, for the construction of the following gravel roads: The Brackman Road in Vincennes Township, 5,407 ft.; the Greene Road in Vincennes Township, 6,193 ft.; the Risch Road in Vincennes Township, 8,085 ft., and the Lett Road in Steen Township, 4,776 ft. John T. Scott is County Audr.

INDIANA.—Bids for the construction of gravel and rock roads in Indiana will be received as follows: Oct. 1, 9 a. m., by Commissioners of Knox County, at Vincennes, Ind., for the construction of three gravel roads; J. T. Scott, Audr.

Oct. 3, at 2 p. m., by Commissioners of Putnam County, at Green Castle, Ind., for the construction of a macadamized road in Cloverdale Township; D. V. Moffitt, Audr.

Oct. 3, at 11 p. m., by Commissioners of Scott County, at Scottsburg, Ind., for the construction of two gravel roads in Viena township, and two in Lexington Township; Frank Gardner, Audr.

Oct. 4, at 2 p. m., by Commissioners of Rush County, at Rushville, Ind., for the construction of three bridges. J. M. Stone, Audr.

Oct. 4, at noon, by Commissioners of Owen County at Spencer, Ind., for the construction of a macadamized road in Washing Township; George W. Edwards Audr.

Oct. 4, at noon, by Commissioners of Sullivan County at Sullivan, Ind., for the construction of two rock roads in Hamilton Township and one each in Curry and Turman Townships; B. C. Crowder, Audr.

Oct. 4, at noon, by Commissioners of Jasper County at Rensselaer in Keener Township; J. N. Leatturman Audr.

Oct. 4, at 10 a. m., by Commissioners of Wabash County at Wabash, Ind., for construction of two gravel roads in Paw-Paw Township; J. P. Noftzger, Audr.

Oct. 5, at 2 p. m., by Commissioners of Howard County at Kokomo, Ind., for the construction of a gravel road in Honey Creek Township; A. B. Esterling, Audr.

Oct. 6, at noon by Commissioners of Miami County at Peru, Ind., for the construction of two rock roads in Washington Township; Charles Griswold, Audr.

Oct. 15, at 10 a. m., by Commissioners of Johnson and Shelby Counties at Franklin, Ind., for the construction of a gravel road on the Johnson-Shelby County line; W. B. Jennigs, Audr.

Oct. 15, at 10 a. m., by the Commissioners of Gibson County at Princeton, Ind., for the construction of four gravel roads in Wabash Township. Wm. T. Roberts, Audr.

Oct. 4, at 10 a. m., by Commissioners of Cass County, at Logansport, Ind., for the construction of a highway on the line between Washington and Tipton Townships; George W. Cann, Audr.

Oct. 5, at 10 a. m., by Commissioner of Cass County, at Logansport, Ind., for the construction of a gravel road in Boone township; George W. Cann, Audr.

Oct. 5, at 10 a. m., by Commissioners of Tippecanoe County, at LaFayette, Ind., for the construction of a gravel road in Townships 2[illegible] and 24, North. John P. Foresman, Audr.

Oct. 4, at 1.30 p. m., by Commissioners of Parker County at Rockville, Ind., for the construction of a gravel road in Reserve Township, including, two bridges; H. A. Henderson, Audr.

FORT BRADY (Sault Ste. Marie post-office), MICH.—Bids will be received by the Quartermaster. until 11 a. m., Sept. 30, for brick pavement, concrete curbs, gutters, etc., at Fort Brady. Capt. William Brooke is Q. M., U. S. A.

MOLINE, ILL.—Bids will be received until noon, Oct. 1, by Henry C. First, Chn., Coal Valley Rural Road Com., Moline, for excavating and grading Coal Valley Rural Road. Mark G. Anderson, of Moline, is Engr.

MORRISON ILL.—We are officially advised that bids were received on Sept. 15, by A. R. Baird, City Clk., for 12,270 sq. yds. of vitrified brick paving. The contract was awarded to JAMES KELLY, at $20,990.

SPRINGFIELD, ILL.—We are officially advised that the city contemplates paving Spring, Pasfield, Edwards and various other streets. William H. Schnepp is Supt. Paving, and Frank H. Hamilton is City Engr.

JEFFERSON, MO.——Bids will be received by the City Clk of the City of Jefferson, until 4 p. m., Oct. 3, for all the labor and material necessary for the curb, guttering, macadamizing, grading, screening and rolling Clark Ave., between Miller and Elm Sts. E. F. C. Harding is City Engr.

*FORT SILL, OKLA.—Bids will be received until 10 a. m., Oct. 15, by Capt. David L. Stone, Constr., Q. M., U. S. A., for grading roads and constructing concrete walks in the new Artillery Post, Fort Sill.

CHELAN, WASH.—The contract for constructing five miles of state road No. 10 has been awarded to the EAGLE TRANSFER CO., of Wenatchee. Work will start at once.

CORVALLIS, ORE.—It is stated that the City Council has let to the WARREN BROS. CONSTRUCTION CO., 59 Temple Pl., Boston, Mass., the contract for paving Washington, Jefferson, Monroe and Third Sts. with bitulithic pavement, at $200,000, approximately.

KLAMATH FALLS. ORE.—The City Council has awarded the contract for bitulithic paving to the WARREN BROS. CONSTRUCTION CO., 59 Temple Pl., Boston, Mass., at $2.20 per sq. yd.

LOS ANGELES, CAL.—The California Paving Co., Stimson Bldg., was the lowest bidder for improving Figueroa St., at 19 cts. a sq. ft. with asphalt paving and $7,635 for six culverts. P. Hein bid 20 cts. a sq. ft. for paving and $8,075 for culverts.

The following bids were received recently by the City Clerk for paving brick to be used in improving Central Park. About 160,000 brick will be required: Simons Brick Co., $10 and $20 per thousand; the Los Angeles Pressed Brick Co., $12 and $22 per thousand. H. J. Lelande is City Clk.

LOS ANGELES, CAL.—The Board of County Supervisors has awarded the contract to W. H. HEWETT CO., Pacific Electric Bldg., for improving Huntington Drive, from Bairdstown to Alhambra, at $7,499. Noted last week.

NATIONAL CITY, CAL.—The Board of Trustees has ordered a special election to vote upon a bond issue of $80,000 for municipal improvements. The money will be expended for street work and park development.

OAKLAND, CAL.—Bids were received by the Park Commission on Sept. 8, for furnishing the necessary labor and materials for and in the construction of an asphalt roadway in Lakeside Park for the Park Department, city of Oakland. All bids were rejected as being excessive. Henry F. Vogt is Secy.

OCEAN PARK, CAL.—L. PEARSON & CO. were awarded the contract recently for improving Indiana Ave., at $7,060.

PASADENA, CAL.—JAMES M. MONTGOMERY was awarded contract by the City Council for improving El Molino Ave., from Colorado St. to Villa St., at $10,492.

RIVERSIDE, CAL.—OSCAR FORD, Wineville, Cal., has been let contract at $17,950 for constructing four miles of the Box Springs Canyon road by the Board of Supervisors. Other bidders were Johnson Shea Co., $20,000; Star Cement Co., $20,915.

SANTA BARBARA, CAL.—Bids will be received on Oct. 3, by the County Supervisors for grading Sections Nos. 4 and 5 of the Coast Road, in Road District No. 3. C. A. Hunt is County Clk.

WHITTIER, CAL.—The School Trustees have awarded the contract to COPPOCK BROS., for constructing 6,500 lin. ft. of cement sidewalk, around the Penn St. School, at 9 cts. a sq. ft. for 3½-in. walk and 8¼ cts. for 3-in. walk.

REGINA, SASK.—The ratepayers on Sept. 8 carried six money bylaws, authorizing the raising of $196,000 for permanent improvements, as follows: Pavement, $132,000; fire protection, $16,000; sewer and water-works extension, $20,000; sidewalks, $59,000.

MANUFACTURING PLANTS.

(**Denotes that this work is advertised in Engineering News.*)

GREENDALE (Worcester post-office), MASS.—Plans are completed for an addition to be built to the factory of the Morgan Spring Co., at Greendale, Mass. It will be wood, two stories, 67 × 110 ft., and will cost $18,000.

CENTRAL FALLS, R. I.—Work will be started at once on an addition to the plant of the Waypoyset Mfg. Co., makers of cotton and silk novelties. The plant has been enlarged once since the original mill was built. The plans for the new structure have not been completed. The plant is to be located on a vacant lot between Broad St. and the New York, New Haven & Hartford R. R., adjacent to the present plant of the company. The plans call for a weave shed with saw-tooth roof, and other buildings which are to be used for the spinning and various other branches of the work. There will be a new picker room, cotton storehouse and power plant. It is stated that the contract for the building has been awarded to the FRANK G. ROWLEY CO., of Pawtucket, R. I., and that it will take a year to complete it. The capital stock of the concern was increased to $1,000,000 recently.

WOONSOCKET, R. I.—The Samoset Co., of Woonsocket, R. I., it is reported, contemplates erecting a 3-story, 113 × 157-ft. brick and steel worsted spinning plant.

PROVIDENCE, R. I.—The Revere Rubber Co., a subsidiary of the U. S. Rubber Co., will operate a plant for the manufacture of rubber automobile tires, exclusively, in this city on Jan. 1, next, according to an announcement made recently. The plant is to be located on Valley St., near the company's present plant, formerly the Joseph Banigan Co. factory. It is stated that the company will expend between $400,000 and $500,000 on the Providence plant, either in additions to the old plant or in improvement of its land.

PAWTUCKET, R. I.—The American Textile Co., the first lace making establishment to be started in Pawtucket, R. I., is to erect an addition to its plant, 243 × 108 ft. It will be of brick, one end to be of wood, with the expectation of further increase within a year or two.

PORTLAND, CONN.—The Rogers & Hubbard Co., of Middletown, Conn., manufacturers of bone goods, have had plans prepared for the construction of a building in Portland. The structure is to be of brick, with a steel truss roof, 160 × 160 ft.

NEW HAVEN, CONN.—The Connecticut Co., Chapel and State Sts., New Haven, is having plans prepared for a car house to be located at State and Cedar Sts., New Haven, it is stated.

The New York, New Haven & Hartford R. R. Co. has asked for bids for the proposed round house to be erected at Cedar Hill. The specifications are all ready and have been submitted. Estimated cost, $200,000. H. L. Ripley is Engr. of Constr., at New Haven.

AMSTERDAM, N. Y.—McCleary, Wallin & Crouse, manufacturers of carpets and rugs, at Amsterdam, are preparing to build a spinning mill to be three stories high, 258 × 50 ft., and to cost about $30,000. The present spinning equipment consists of 38 sets of cards and 16 mule jacks.

BUFFALO, N. Y.—We are officially advised that the TURNER CONSTRUCTION CO., 11 Broadway, New York, has been awarded the general contract for the construction of an addition to Factory C, of the F. N. Burt Co., manufacturers of paper boxes. This building will be located at 1502 Niagara St., Buffalo, is to be 47 × 147.11 ft. and six stories high, with a basement. Construction will be of reinforced concrete with maple floors. Robert J. Reidpath & Son, Builders' Exchange, Buffalo, are Archs.

The management of the John R. Keim Mills, manufacturers of autobomile parts and accessories, is having plans prepared for an addition to its plant at Kensington Ave. and the Erie R. R., having recently acquired land adjoining for the purpose.

The Washburn-Crosby Co. will build and equip a 1-story brick and steel boiler house at its flour mill on South Michigan St. and the City Ship Canal.

The Buffalo Brewing Co. will erect a transformer building and a pitching building at its plant, Clinton St. and the Lackawanna R. R.

WATERTOWN, N. Y.—The Shaughnessy Knitting Co., of Watertown, N. Y., contemplates erecting a 3-story, 150 × 50-ft. knitting mill. Cost, about $20,000.

NEW YORK, N. Y.—Zachary T. Davis, Arch., 17 Van Buren St., Chicago, Ill., is preparing plans and will receive bids Oct. 1 for a 3-story and basement building, 100 × 220 ft., in Brooklyn, for the Leysar Green Co. It will be of brick and mill construction, with sprinkler system, two electric elevators and a 250-HP. steam electric power plant.

*KINGS PARK, N. Y.—The State Commission in Lunacy has awarded the contract for laundry machinery at the Kings Park State Hospital, bids for which were received on Aug. 31, to the AMERICAN LAUNDRY MACHINE MFG. CO., 132 West 27th St., New York, at $25,960. List of bidders was given last week. F. B. Ware is State Arch. at Albany.

ROCHESTER, N. Y.—The M. D. Knowlton Co. has let the general contract to the H. P. SICKELS CO., 3 Elton St., for a 2-story addition, 100 × 142 ft., to its paper box factory at Elizabeth and Hill Sts.

HARRISON, N. J.—The Crucible Steel Co. of America has secured a permit from Daniel F. Maher, Bldg. Inspector of Harrison, for the erection of an addition to its plant. The new building will be of brick and steel construction, two stories in height and will cost about $25,000.

JERSEY CITY, N. J.—The general contract for an addition to the plant of the American Type Founders Co., on Communipaw Ave., has been awarded to the W. L. CROW CONSTRUCTION CO., 103 Park Ave., New York. The building, which will be from plans made by Rowland & Eurich, 15 Exchange Pl., will be of brick and stone, two stories in height and will measure 62 × 200 ft. The estimated cost of the improvement is $50,000.

Plans are being prepared for Swift & Co. for a cold storage warehouse, which will be erected on the northeast corner of Henderson and Ninth Sts. The new structure will be of brick, four stories in height and will measure 300 × 100 ft. Specifications will call for fireproof construction and the owners will be ready for estimates about Oct. 1. The estimated cost of the building will be about $150,000.

We are officially advised that John T. Rowland, Jr., and Frank Eurich, Archs., 15 Exchange Pl., Jersey City, are receiving bids on the superstructure for the box factory which will be erected by the Mengel Box Co., of Louisville, Ky., at Hackensack, Lossing and Bancroft Aves. and Broadway, on the Hackensack River, Jersey City. It will be 353 × 123 ft.

ERIE, PA.—We are officially advised that the Burke Electric Co. has awarded a contract to H. ROMMERDALE, of Erie, Pa., to construct a brick 1-story addition, 50 × 350 feet.

ERIE, PA.—It is reported that a contract was awarded on Sept. 9 by the General Electric Co. to the NATIONAL FIRE PROOFING CO., Fulton Bldg., Pittsburg, for the construction of two of a group of buildings over 800 ft. long, of fireproof construction, which calls for the expenditure of $12,000,000, on an 800-acre plot of ground, three miles east of Erie. The plant will eventually employ 25,000 men. These will be the first unit of the new $25,000,000 plant and the nucleus of the new town the Electric Co. has planned. R. W. Allison is V. P. of the National Fire Proofing Co.

BRISTOL, PA.—Charles J. Brooke, Arch., 14 South Broad St., is preparing plans for an addition to the plant of the Bristol Patent Leather Co., in Bristol.

KOPPEL, PA.—F. G. Ross, Engr., Farmers' Bank Bldg., Pittsburg, is preparing plans for buildings that will double the capacity of the Orenstein-Arthur Koppel Co.'s plant at Koppel, Beaver County, Pa., for the production of steel and wood industrial cars, portable track, etc. M. F. HOWLEY, Berger Bldg., Pittsburg, has the contract for leveling and filling in the site for the new extension, furnishing the concrete floors in the buildings and building the concrete piers for the support of the steel frame. The additions consist of an extension to the present erecting shop, 75 × 200 ft., having an electric traveling crane; machine shop, 75 × 80 ft.; blacksmith shop, 50 × 75 ft., to contain steam hammers, etc.; heavy car shop, 75 × 125 ft., with electric traveling crane; wood shop, 50 × 100 ft., and a yard crane runway about 25 × 250 ft., with a 10-ton electric traveling crane. The buildings are to be of steel with corrugated iron siding and composition roofing. Other equipment required includes water tube boilers of 250-HP.; a 150 to 200-KW. generating set; a 2-stage air compressor, a number of motors from 5-HP. up for driving the machinery and the necessary wiring from the power house to all electrical equipment. Bids for this work will be received about Oct. 15, and as soon as the weather permits in the spring the erection will be started.

PHILADELPHIA, PA.—JOHN G. BROWN, Witherspoon Bldg., has been awarded the contract to erect a 5-story brick and concrete weaving building, 35 × 200 ft., for the textile weaving plant of William F. Read & Sons Co., at Twelfth and Jackson Sts. Cost, $50,000.

HARRISBURG, PA.—The FRICK CO., Fulton Bldg., Pittsburg, has secured the contract for the big ice-making and refrigerating machinery to be installed in a cold storage and ice-making plant in Harrisburg, for Patrick H. Vaughn Cost, $80,000.

CHESTER, PA.—The Robert E. Clark Co., of Chester, will enlarge its plant to twice the present capacity. A machine for the manufacture of thread for the domestic trade is planned.

HAMBURG, PA.—We are officially advised that the Hamburg Boiler Works will receive bids for a steel shed or wing, 18 × 100 ft., to be erected adjoining its plant. Henry Seiders is proprietor.

WESTFIELD, PA.—Joseph F. Eberly, manufacturer of leather goods, will erect a factory building, 50 × 200 ft., with a wing, 56 × 75 ft., one story. It will be of brick, reinforced concrete and structural iron, and is to be built from plans prepared by Pierce & Bickford, Archs., 120 Lake St., Elmira, N. Y.

BALTIMORE, MD.—The Barrett-McKee Co., shirt manufacturers, 220 West Camden St., has commissioned Owens & Sisco, Archs., Continental Bldg., to prepare plans and specifications for the factory to be erected at German and Greene Sts. It will be of brick with steam heat, gas and electric lighting, freight elevators, plumbing.

MORGANTOWN, W. VA.—The contract for excavating, brick, stone and concrete work for the factory building of the Crystal Tumbler Co. has been let to H. J. ZEVELY & CO. and work on construction will be commenced immediately. The structure is to have two stories and basement and will be of steel brick construction.

CLARKSBURG, W. VA.—Estimates are being prepared by Jesse E. Inman, head of the glass insulator plant which is to be located at Hartland, near this city, for the equipment of the plant. Practically all of the stock of the company has been sold and bids for erecting and equipping the plant will be advertised for soon.

DANBURY, N. C.—The North Carolina Traction Co., Danbury, N. C., will let contracts for building two new car houses, depot and freight houses, a repair shop and two steel and concrete bridges. H. P. MacKnight, Southern Pines, N. C., is Gen. Dir.

HIGH POINT, N. C.—The Pickett Cotton Mill, of High Point, N. C., is completing arrangements for its proposed mill, to have an equipment of 12,000 spindles and 300 looms, and organized with a capital stock of $250,000. F. M. Pickett, Treas.; Lockwood, Greene & Co., 93 Federal St., Boston, Mass., are Archs.

EASLEY, S. C.—Arrangements are being made for constructing the Alice Mill at Easley, S. C. It is contemplated to have an equipment of 10,000 spindles and 300 looms. E. H. Shanklin is Pres.

COLUMBUS, OHIO.—The Kilbourne & Jacobs Mfg. Co. is receiving bids for the erection of an addition to its manufacturing plant on North Fourth St.

The FERRO CONCRETE CONSTRUCTION CO., Richmond and Harriet Sts., Cincinnati, has been awarded the contract for the erection of an addition to the plant of the Central Ohio Paper Co.

COLUMBUS, OHIO.—SECKNER & CO., Engrs. 217 La Salle St., Chicago, have the general contract for erecting a grain elevator of 200,000 bushels capacity, at Columbus, for the Seeds, Hay & Grain Co. It will be of reinforced concrete construction.

The Hocking Valley Ry. Co. will build freight yards and terminals in Columbus. The cost will be not less than $2,000,000. A site has been chosen south of the city limits, according to an announcement by George W. Stevens, Pres., Richmond, Va. Further construction for Columbus includes an enlargement of the Hocking Valley shops These are not adapted to the repair of the larger type of engine which will be used for handling through freights. The machinery for such repairs is already at hand. The operating offices of the Hocking are to remain in Columbus and will be enlarged as the business of the road increases through new traffic. F. B. Sheldon is Ch. Engr., Columbus.

CLAYTON, OHIO.—A brick plant will be located west of East Clayton, and will be built and operated by the Diamond Clay Co. The company will manufacture paving and building brick.

CLEVELAND, OHIO.—It is stated that Chandler & Price Co. will build an addition to its plant on Carnegie Ave.

ASHTABULA, OHIO.—In pursuance of construction of its proposed $1,000,000 shipbuilding and drydock plant at this city, the Great Lakes Engineering Works, of Detroit, Mich., is about to ask for bids on putting up the following buildings: Office, 50 × 50 ft., two stories, brick veneer; powerhouse, 90 × 100 ft., one story, brick, steel and reinforced concrete; blacksmith shop, 60 × 90 ft., one story, brick and steel; storage building, 60 × 90 ft., brick and reinforced concrete, two stories; joiner shop, 250 × 50, two stories, brick, fireproof; machine shop, 160 × 300 ft., brick and steel, one story; two drydocks, 120 × 650 ft., concrete lined.

It is reported that the Lake Shore & Michigan Southern Ry. Co. has purchased property at Ashtabula for which $27,400 was paid and upon which shops are to be built. The old building is to be torn down and supplanted by others modern in design and equipment. D. R. McBain is Supt. M. P., Cleveland, Ohio.

DAYTON, OHIO.—The Wright Aeroplane Co. has signed a contract for the purchase of 18 lots on the West Side and work will begin at once on the erection of an aeroplane factory.

GALLION, OHIO.—THE CAREY CONSTRUCTION CO., Electric Bldg., Cleveland, was awarded the contract for the erection of the plant at Gallion for the Howard Motor Car Co. at $87,700. Vernon Redding, Arch., of Mansfield, prepared the plans.

YORKVILLE, OHIO.—F. E. Fieger, Engr., Pittsburg, Pa., is preparing estimates and plans for the erection and equipment of the steel plant to be erected by the Whittaker-Glessner Co., at Yorkville, opposite Wheeling, Va. Two 60-ton open-hearth furnaces will be built immediately and a blooming mill and a bar mill installed. The plans as originally prepared, called for three open-hearth furnaces of a 60 to 75-ton capacity but these have been curtailed. The directors of the company some months ago authorized the sale of $900,000 of treasury stock to cover the cost of the additions to the plant. The company's capital stock is $5,000,000, three-fifths of which has been issued.

CAMDEN, IND.—SECKNER & CO., 217 La Salle St., Chicago, will erect a 50,000 bushels capacity elevator at Camden, Ind., for the Farmers' Grain & Elevator Co., Camden, to be of reinforced concrete, with gasoline and electric power equipment.

INDIANAPOLIS, IND.—D. K. Bishop, Pres. of the Bishop & Babcock Soda Fountain Co., will receive bids at once for rebuilding a factory on the site of the building recently destroyed by fire, at a loss of about $65,000.

MONTPELIER, IND.—The Montpelier Mill & Grain Co. has incorporated to build and equip a flour mill and grain elevator. Franklin E. Haller is Pres.

MARTINSVILLE, IND.—It is stated that PRATHER & DUNCAN, of this city, have been awarded a contract for the construction of a kitchen cabinet factory, 100 × 200 ft., two stories high. Estimated cost, $28,000.

ANN ARBOR, MICH.—George Scott, Henning Bldg., Ann Arbor, let the general contract on Sept. 8 for a 1-story and basement factory building, 50 × 150 ft., for the Huron Mfg. Co., of Ann Arbor, to FRED C. WEINBERG, 713 Fifth St., Ann Arbor. Estimated cost, $20,000.

DETROIT, MICH.—Mildner & Eisen, 1018 Hammond Bldg., have let the following contracts for the 2-story and basement bottling works, 70 × 80 ft., for Kaiser & Schmidt, 407 Wilkins St.: Structural iron work to DONAVAN WIRE & IRON WORKS, Toledo, Ohio; masonry to WILLIAM REICH, 432 Moran St., Detroit; carpentry to A. HILD, 680 Orleans St., Detroit; composition roofing to VOIGHT & SEXAUER, 148 Sherman St., Detroit; painting to WILLIAM ZEMMIN, 390 Gratiot Ave. Cost, $20,000.

PORT HURON, MICH.—Albert Kahn and E. Wilby, Trussed Concrete Bldg., Detroit, are preparing plans for a factory, 75 × 200 ft., for the Port Huron Engine & Thresher Co., E. D. Vanness, Gen. Supt., Port Huron. The building is to be of brick and steel, fireproof construction. Cost, $21,000.

WYANDOTTE, MICH.—Varney, Winter & Varney, 58 Equity Bldg., Detroit, Mich., let the general contract on Sept. 1 for the automobile truck factory for the Seitz Auto & Transmission Co., 225 Beecher Ave., to T. N. BEAKER, 318 Holden Ave. The factory will be two stories high, 60 × 320 ft., and located in Wyandotte, Mich. Cost, $38,000

CHICAGO, ILL.—SECKNER & CO., 217 La Salle St., Chicago, Ill., have the general contract for erecting a grain storage tank of 100,000 bushels capacity, at 87th St. and Stewart Ave., for Rosenbaum Bros., Board of Trade Bldg. It will be of reinforced concrete construction.

Ottenheimer, Stern & Reichert, Archs., 134 Monroe St., are preparing plans for a 3-story building, 95 × 425 ft., to cost $150,000, at 20th St. and Western Ave., for G. D. Glaser, 703 Washington Boulevard. It will be of concrete, brick and mill construction, and will have sprinkler system, steam heating, fireproof windows and electric freight elevators.

H. J. Gaul, Engr., 172 Washington St., is preparing plans for a 4-story factory, 25 × 43 and a 1-story addition, 25 × 30 ft., to be erected at 831 Wood St., for John Kimmeth, on premises. It is to be of brick construction, with heavy timber floors and one freight electric elevator.

L. E. Stanhope, Arch., 184 La Salle St., is preparing plans for a 3-story factory, 75 × 124 ft., to cost $40,000, at Laflin and 14th Sts. It will be of brick and mill construction, with fireproof windows, steam heating and freight elevator.

CHICAGO HEIGHTS, ILL.—Huehl & Schmid, Archs., 162 Randolph St., have awarded the general contract to RAHN-JOHNSON CONSTRUCTION CO., Chicago Heights, and structural steel work to GEORGE W. JACKSON, INC., 174 West Jackson Boulevard, for remodeling foundry and machine shop at Chicago Heights, Ill., for the American Manganese Steel Co. It will be of reinforced concrete and steel construction. The owners will require traveling cranes.

ANCHOR, ILL.—The BURRELL ENGINEERING & CONSTRUCTION CO., 108 La Salle St., Chicago, has the general contract to construct an 80,000-bushel capacity grain elevator at Anchor for the Anchor Farmers' Grain Co. It is to be of crib construction with corrugated iron siding and have a 20-HP. gasoline engine.

CHICAGO, ILL.—The general contract for erecting a 1-story factory, 104 × 216 ft., at Grand and Christiana Aves., has been awarded to the SHANK CO., 108 La Salle St. The structure will be of brick and steel construction. The contractors are taking bids on steam heating, vault doors and plumbing.

Huehl & Schmid, Archs., 163 Randolph St., have awarded the general contract to F. E. DOHERTY, Chamber of Commerce Bldg., for a machine shop, 30 × 120 ft., at Elston and Wabansia Ave., for the George Whiting Co., 1413 West North Ave. The building will be of reinforced concrete and brick construction.

Marshall & Fox, Archs., 164 Dearborn St., have awarded the general contract to H. A. LEAFGREEN for a 2-story addition, 60 × 700 ft., for Spaulding & Merrick, 271 Michigan Ave. It will be of concrete and brick construction.

HOOPPOLE, ILL.—The Burrell Engineering & Construction Co., 108 La Salle St., Chicago, Ill., has completed plans for an elevator at Hooppole, Ill., for Mathis Bros., to be of crib construction, with corrugated iron sidings. The owners are receiving estimates. They will require gasoline power.

MATTOON, ILL.—The Cleveland, Cincinnati, Chicago & St. Louis Ry. Co. will let contracts soon for a 25-stall round-house to be erected at Mattoon, at a cost of $150,000. An additional $100,000 will be spent on other terminal improvements. G. Hitesman is Bldg., Superv., at Mattoon.

REEDSVILLE, WIS.—The Wisconsin Pea Canners' Co. is planning the erection of a factory building at Reedsville, Wis. The company is capitalized at $1,500,000 and operates plants in different parts of the state.

MILWAUKEE, WIS.—We are officially advised that the Holeproof Hosiery Co., 57 Fourth St., will erect a 6-story addition, 60 × 80 ft., and a 1-story addition, 60 × 90 ft., to its plant at Fourth and Clybourn Sts. Cost, $18,000. The buildings will be of slow-burning construction. The following contracts have been let: Piling, J. E. HATHAWAY & CO.; masonry, STRACHOTA & SON; concrete, MADSON, CHRISTENSON & INGBRETSON, 379 31st Ave.; cut stone, P. SCHMIDT & CO., 355 East North Ave.; structural steel, A. F. WAGNER, 516 Market St. Brust & Phillip, First National Bank Bldg., are Archs.

FORT DODGE, IOWA.—Arthur Libby, of Chicago, has announced that he and his brothers will erect a clay plant either in Fort Dodge or Lehigh, a mining village near here.

CLINTON, IOWA.—Bernard Barthel, Engr., 79 Dearborn St., Chicago, Ill., is preparing plans for an office and bottling house to cost $50,000, for Clinton Brewing Co., Clinton. Seven electric motors and one 150-HP. boiler will be required. The building is to be of brick and concrete construction.

BELLE PLAINE, IOWA.—The North Iowa Brick & Tile Co., which owns two plants in Mason City, Iowa, has purchased a tract at Belle Plaine and will erect a plant here to cost $200,000. G. W. Howland, of Mason City, is interested.

ST. PAUL, MINN.—Buechner & Orth, Archs., Manhattan Bldg., St. Paul, have awarded the contract for constructing a pressed brick and cut stone, fiber factory and power plant for the White Enamel Refrigerator Co., on University and Hamline Aves., to the INGEMANN CO., 1950 St. Anthony Ave. Cost, $25,000. Gebhard Bohn is Pres.

ST. LOUIS, MO.—A $75,000 6-story and basement daylight factory will be built on a $32,000 site at 2113-15-17-19 Franklin Ave., purchased recently by the T. M. Sayman Realty & Investment Co., 2121 Franklin Ave., through the Holbrook-Blackwelder Real Estate Trust Co. The Sayman corporation, manufacturer of medicated soap, purchased 75 ft. on the north line of Franklin Ave. by a depth of 156 ft. and 4 ins. to an alley, from Israel Grolinek and Charles W. Bauer. The factory will be completed next fall. The Sayman Co.'s realty holdings on Franklin Ave. now total 175 ft. The present plant consists of a 3-story factory on a lot at 2127-29 Franklin Ave. In addition to this is a 2-story addition at 2121-23-25 Franklin Ave., on a lot 50 × 156 ft. The improvements on the ground recently purchased and the 2-story addition will be torn down, leaving the 3-story factory intact. The 6-story new building will be built at a cost of $75,000 on the site, 125 × 156 ft., which will give the company a total floor space of about 155,000 sq. ft., including the space of the present 3-story plant. The building will be fireproof, in reinforced concrete. The first floor will be in enamel brick, with Venetian granite trimmings, French plate windows, and will be devoted to general offices. The upper five floors will be in stock brown pressed brick, devoted to a printing equipment on the second floor, wrapping and storing departments above, with lunch and recreation rooms for the employees.

EL PASO, TEX.—The Knock Down Concrete Cottage Co., of which Otto P. Kroeger is organizer, is planning to buy a 10-acre tract near El Paso, to build a factory for manufacturing "knock down" houses.

HOUSTON, TEX.—The Texas Sugar Refining Co., which was recently incorporated with a capital stock of $1,600,000, will erect a plant of steel and reinforced-concrete construction. Garland B. Miller, of Falfurrias, Tex., and his company, the Miller Bros. Co., are interested. The location is not yet definitely settled; Port Arthur, Beaumont, Houston and Texas City are under consideration. The plan will refine foreign and domestic raw sugars, principally for Texas market. The plant will cost $900,000; daily capacity, 2,000 bbls.; Eastwick Engineering Co., Ltd., 82 Beaver St., New York, is Engr.

ORANGE, TEX.—C. P. Tappan, a cereal manufacturer, at Worcester, Mass., is considering the proposition of establishing a breakfast food factory at Orange. The proposed factory would use rice principally.

GOLIAD, TEX.—The Goliad Water & Light Co. of this town is contemplating the erection of an ice plant here, to be placed in operation by next season. J. W. Shaper is Pres.

YOAKUM, TEX.—A planing mill is being erected here by Ross & Shall. Machinery for the plant is being installed. A sash and door factory is to be added to the plant later.

GUTHRIE, OKLA.—The management of the Pioneer Cotton Mills, of Guthrie, has decided to increase the capital stock from $150,000 to $240,000. This increase of $90,000 will be expended for additional facilities, including enlargement of the present building and the instalment of looms. The company has been manufacturing yarns and will thus be able to weave cloth. It proposes to weave cotton duck for wagon sheets and tents. Its mill building is 400 ft. long.

SPOKANE, WASH.—It is probable that a lumber yard and box factory will be constructed on the site of the establishment recently destroyed by fire and owned by the William B. Musser Lumber Co., at Montgomery Ave. and Earl St.

SEATTLE, WASH.—The A. W. QUIST CO., Bailey Bldg., have been awarded a contract by the J. W. Fales Paper Co., to erect a 4-story concrete building at Fourth Ave., South, and Connecticut St., just north of the American Steel & Wire Co. The structure will be 60 × 256 ft., of heavy mill construction and will be used for warehouse purposes. Work will be started at once. Estimated cost, $65,000.

PASADENA, CAL.—W. C. CROWELL was awarded the contract for the erection of a brick boiler house at the Throop Polytechnic Institute. The cost will be $10,000.

SAN DIEGO, CAL.—The San Diego Electric Ry. Co., it is stated, will erect a temporary machine shop at Arctic St. and E St., San Diego, for the purpose of repairing cars while its new car shops are under construction. The structure will be of corrugated iron, 62 × 90 ft. William Clayton is Gen. Mgr.

MERCED, CAL.—The R. Barcroft & Sons Co. is preparing to establish a factory here for the manufacture of gas-engine pumps and other machinery used in irrigation and farm work.

COLFAX, CAL.—The Reed Lumber Co. is contemplating the construction of a box factory at Colfax and building a sawmill at Iowa Hill.

LOS ANGELES, CAL.—Plans have been prepared by the engineering department of the Los Angeles Railway Co. for a reinforced-concrete car barn to be erected at Agricultural Park. The building will be 174 × 1,000 ft., one story high, with walls 30 ft. high. There will be two longitudinal fire walls, concrete roof reinforced, wrought steel sash, square twisted and round steel reinforcement, skylights, and wire glass. G. J. Kuhrts is Ch. Engr.

ROSEVILLE, CAL.—The Southern Pacific Co. has made the necessary appropriations for the construction of machine shops for the repair department here, according to the Sacramento "Union." The buildings, including the sheds, will cover a space about 100 × 300 ft., and will be equipped with all the necessary machinery and tools to repair and build cars to the extent of the wood and blacksmith work. It is not the intention at the present time to do any casting or heavy forging work here. The second roundhouse, which was started some three years ago but never completed, will be finished probably, and put in commission, as the one roundhouse is not sufficient to accommodate the engines. When the new roundhouse is completed it will be made large enough to accommodate the large Mallett engines. C. T. Noyes is Supt. of Shops at Sacramento, Cal.

VERNON (Grafton post-office), CAL.—A 4-acre tract at Vernon, on the Southern Pacific, Santa Fe and Pacific Electric Rys., has been purchased by Western Grain & Sugar Products Co., of San Francisco, as a site for a factory, work upon which will begin at once.

ANAHEIM, CAL.—The Anaheim Sugar Co. is taking figures on the general contract for the erection of the sugar factory building. The building will require 2,300,000 brick, 5,000 bbls. of cement and 2,500 bbls. lime.

SAN DIEGO, CAL.—The San Diego Shoe Co. has been incorporated here and will erect a frame factory at Coronado. F. A. Garretson, 1612 Ninth St., is the principal owner.

The Baker Smith Machine Co. has been incorporated here for $10,000. The purpose of the company is to engage in a general engineering, manufacturing and electrical construction business. Robert and Fred. Baker, Eugene F. Smith and Sam F. Smith are Dirs.

HESPELER, ONT.—A. B. Jardine & Co., manufacturers of blacksmiths' tools, will erect a 75 × 56-ft. addition to their present factory.

WINDSOR, ONT.—C. Howard Crane, Ford Bldg., Detroit, Mich., let the following contracts on Sept. 7 for the proposed concrete factory building for the F. A. Stearns Co., I. H. Taylor, Pur. Agt., Windsor. Masonry to GEORGE W. SEWELL, 219 Ouellette Ave.; carpentry to URGEL JACQUES, 160 Dongal Ave., both of Windsor.

MISCELLANEOUS CONTRACTS.

(*Denotes that this work is advertised in Engineering News.)*

U. S. RECLAMATION SERVICE.—All news concerning canal and irrigation projects, etc., will be found under Water Supply—Irrigation.

DRYDOCKS.—Ashtabula, Ohio.—See item under Manufacturing Plants.

SUBWAY.—Cleveland, Ohio.—See item under Electric Railways.

*DREDGING.—Baltimore, Md.—Bids are asked by Col. Thomas L. Casey, Corps Engrs., U. S. A., Baltimore, until 1 p. m., Oct. 18, for dredging in Patapsco River, Md.

DREDGING.—Boston, Mass.—Bids are asked by Col. Frederic V. Abbott, Corps Engrs., U. S. A., Boston, until Oct. 17 for dredging in the Mystic River.

WILMINGTON, N. C.—Bids are asked until noon, Oct. 14, by Capt. Earl I. Brown, Corps Engrs., U. S. A., Wilmington, for dredging in Cape Fear River.

*DREDGING.—Boston, Mass.—Bids are asked by Col. Frederic V. Abbott, Corps Engrs., U. S. A., Boston, until noon, Oct. 19, for dredging in Lynn Harbor.

WHARF.—Bic, Que.—Bids will be received until Oct. 12 by the Department of Public Works, for the construction of a wharf at Bic, R. C. Desrochers is Secy.

BREAKWATER.—Fairport, Ohio.—Bids will be received until Oct. 8 by Col. John Millis, Corps Engrs., U. S. A., 813 Prospect Ave., S. E., Cleveland, for constructing a breakwater at Fairport.

*DREDGING—New York, N. Y.—Bids are asked by Capt. Earl I. Brown, Corps Engrs., U. S. A., Wilmington, N. C., until noon, Oct. 20, for dredging in Trent River, New River, and waterways to Beaufort, N. C.

*DREDGING, New York, N. Y.—Bids are asked by Col. William T. Rossell, Corps Engrs., U. S. A., Army Bldg., New York, until noon, Oct. 21, for dredging in channel north of Shooters Island, N. Y. and N. J.

BREAKWATER.—Cleveland, Ohio.—Bids will be received until Oct. 15 by Col. John Millis, Corps, Engrs., U. S. A., 813 Prospect Ave., S. E., Cleveland, for repairing a breakwater at Cleveland Harbor.

*DREDGING.—Washington, D. C.—Bids art asked until noon, Oct. 20, by Lt.-Col. W. C. Langfitt, Corps Engrs., U. S. A., 920 17th St., N. W., Washington, for dredging in the James River, Va.

BREAKWATER.—Paspebiac, Que.—Bids are asked until Oct. 10, by the Department of Public Works, R. C. Desrochers, Secy., for the construction of a breakwater at Paspebiac East.

*DREDGING.—Portland, Me.—Bids are asked by Lt. Col. George A. Zinn, Corps Engrs., U. S. A., 537 Congress St., Portland, until noon, Oct. 18, for dredging in Peperell's Cove, Me.

*DREDGING.—Jacksonville, Fla.—Bids are asked by Capt. George R. Spalding, Corps Engrs., U. S. A., Jacksonville, until noon, Oct. 20, for dredging in Caloosahatchee River entrance.

ICE PIER.—L'Assomption, Que.—Bids will be received until Oct. 12, by the Department of Public Works, R. C. Desrochers, Secy., Ottawa, Ont., for the construction of an ice pier at L'Assomption.

REPAIR OF PIER.—Philadelphia, Pa.—The contract for repairing Race St. Pier has been awarded to M. & J. B. McHUGH, Arcade Bldg., at $6,000. Bids were received on Sept. 9. J. F. Hasskarl, is Acting Dir. Dept. Wharves, Docks and Ferries.

DAM TRESTLES.—Wheeling, W. Va.—Bids are asked until 11 a. m., Oct. 12, by Capt. F. W. Altstaetter, Corps Engrs., U. S. A., Wheeling, for furnishing and delivering steel Poiree dam trestles, Dams Nos. 11, 13 and 18, Ohio River.

*DITCHES.—Greenwood, Miss.—Bids are asked by the Cude Drainage District, until noon, Oct. 17, for digging 20 miles of open ditches consisting of 484,000 cu. yds. of excavating. E. D. Stone, Greenwood, is Atty.; G. W. Holmes is Pres.

*TOWBOAT.—Wheeling, W. Va.—Bids will be received by Capt. F. W. Altstaetter, Corps, Engrs., U. S. A., Wheeling, until 11 a. m., Oct. 18, for constructing and delivering steel-hull, stern-wheel towboat, "General Craighill."

BREAKWATER.—Tenecape, N. S.—The contract for the construction of a breakwater at Tenecape, N. S., has been awarded by the Department of Public Works, Ottawa, Ont., to J. E. & HALL BIGELOW, of Canning, N. S., at $5,475. R. C. Desrochers is Secy.

*EMBANKMENT.—Duluth, Min Bids are asked by Lt. Col. Graham D. , Corps Engrs., U. S. A., Duluth, until n, Oct. 19, for furnishing and placing in the foundation embankment for the akwater extension at Marquette, Mich.

BREAKWATER.—Matane, Que. e contract for the construction of a kwater at Matane, has been awarded he Department of Public Works, Ottaw nt., to NAPOLEON TRUDEL, of St. Ir Que., at $55,021.

DRY DOCK.—New York, N. Y. Navy Department, Washington, D. C., Sept. 2, signed an agreement with H ROOK, CABOT & ROLLINS CORPOR N, 6 Beacon St., Boston, Mass., to co te the drydock at the U. S. Navy Yard, York.

BREAKWATER.—Tracadie Cro P. E. I.—The contract for the constru of a breakwater at Tracadie Harbor, E. I., has been awarded by the Dep nt of Public Works, Ottawa, Ont., to K D. McDONALD, of Sydney, N. S., a 24,540. R. C. Desrochers is Secy.

PIER.—Colchester, Ont.—The co ct for the construction of an extension to e pier at Colchester, Ont., has been awar by the Department of Public Works, Otta Ont., to MICHAEL, MATTHEW J. & PA ICK J. O'LEARY, of Ottawa, at $14,500 R. C. Desrochers is Secy.

SPRINKLER SYSTEM.—Boston, Mass.—Bids will be received by the Bureau Yards and Docks, Navy Dept., Washingto D. C., until 11 a. m., Oct. 8, for automati prinklers for buildings Nos. 58, 60 and 6 at the U. S. Navy Yard, Boston. Will m M. Smith is Acting Ch. of Bureau.

WHARVES.—Nova Scotia.—The contracts for the construction of wharves at Dover and Port Felix, N. S., have been awarded by the Department of Public Works, Ottawa, Ont., to GIRROIR & SWEET, of Antigonish, N. S., at $3,836 and $4,309, respectively. R. C. Desrochers is Secy.

*DREDGING.—Duluth, Minn.—Bids are asked until noon, Sept. 30, by Lieut.-Col. Graham D. Fitch, Corps Engrs., U. S. A., Duluth, for dredging in Duluth-Superior Harbor. Plans and specifications are on file at the office of Engineering News, New York.

LEVEE.—New Orleans, La.—Bids were received on Sept. 1 by Capt. Robt. R. Ralston, Corps Engrs., U. S. A., for constructing Bonnet Carre Levee 94,000 cu. yds. and Fairview Levee, 107,000 cu. yds. and the contract has been awarded to R. T. CLARK, of Natchez, Miss., at 17.9 cts. and 13.7 cts. per cu. yd., respectively.

CONDUIT.—Oxnard, Cal.—The WEBER DULLER CO., Pacific Electric Bldg., Los Angeles, has secured contract for constructing 2,000 ft. of reinforced concrete conduit and automatic tide gates on the Patterson Ranch, near Oxnard. James D. Schuyler, Union Trust Bldg., Los Angeles, is Engr. Cost, about $17,500.

DITCH WORK.—Murphysboro, Ill.—Bids will be received until Sept. 30 by Dan Bower, County Clerk, Murphysboro, for excavating approximately 563,000 cu. yds. of earth required in enlarging old and cutting new ditches for the Commissioners of Big Lake Special Drainage District. Joel Dunn is Engr., Fordyce, Ill.

DRAIN.—Fort Dodge, Iowa.—Bids are asked until Oct. 6 by J. L. Hanrahan, County Audr. of Webster County, Fort Dodge, for constructing Joint Drains No. 95 in Webster County and No. 87 in Hamilton County approximating 18,565 ft. of 12 to 26-in. tile. C. H. Reynolds is Engr., Fort Dodge.

DITCH.—Warren, Minn.—The contract for constructing Judicial Ditch No. 13 has been awarded to NORTHWESTERN DRAINAGE CO., of Grand Rapids, Wis., at 12½ cts. per cu. yd. Bids were received on Aug. 31. A. G. Lundgren is County Audr.

All bids received on Sept. 9 for constructing Judicial Ditch No. 19, requiring about 797,381 yds. of excavation have been rejected. Cost, about $81,291.

DRYDOCK PUMPING EQUIPMENTS.—Washington D. C.—Bids are asked by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a. m., Oct. 22, for dry dock pumping equipments at the U. S. Navy Yards at New York, N. Y., and Puget Sound (Bremerton) Wash., and the U. S. Naval Station, Pearl Harbor, T. H. Specifications are on file at the office of Engineering News, New York.

*DREDGE WORK.—Des Moines, Ia.—Bids were received on Sept. 12, for river improvements for flood protection along the Des Moines and Raccoon rivers in Des Moines, The work includes 650,000 cu. yds. of excavation; also levee construction. Neal Jones is City Clk. The J. W. Turner Improvement Co., of Des Moines, submitted the only bid, which was rejected as being above the amount available.

*DREDGING.—Galveston, Tex.—Bids were received as follows by Maj. G. P. Howell, Corps Engrs., U. S. A., Galveston, on Sept. 10, for dredging 770,000 cu. yds. in Port Bolivar Channel, Tex.; (a) price per cu. yd., (b) total: Bowers Southern Dredging Co., Galveston, Tex., (a) 12½ cts., (b) $96,250; North American Dredging Co. of Texas (a), 10¾ cts., (b) $82,775; L. T. Gaylord, Houston, Tex., (a) 10.95 cts., (b) $84,315; Home Dredging Co., Mobile, Ala., (a) 12½ cts. (b) $96,250.

*DREDGING.—Bridgeport, Conn.—Bids were received as follows by Lt.-Col. Harry Taylor, Corps Engrs., U. S. A., New London, Conn., on Sept. 15, for dredging in Bridgeport Harbor. Maritime Dredging Co. $73,962; John P. Randerson, $71,872; Morris & Cumings Dredging Co., (Pequonock River only), $41,367; Coast Wise Dredging Co., $56,980; William Beard & Co., $61,124; S. Sanford Ross, Inc., (Cedar Creek only) $28,520; Taylor Dredging Co., $62,678; International Contracting Co., $66,822.

*CAISSONS, PIERS, ETC.—Milwaukee, Wis.—Bids were received as follows by Maj. Charles S. Brommell, Corps Engrs., U. S. A., Milwaukee, on Sept. 12, for building reinforced concrete caissons and pile pier; removing old pier and dredging at Racine Harbor, Wis.: Hugo & Tims Co., Duluth, Minn., $167,209; Greiling Bros. Co., Green Bay, Wis., $1[illegible]468; Edward Gillon Dock, Dredge and Construction Co., Racine, Wis., $181,686. William H. Gillon, Milwaukee, Wis., $180,875. It has been recommended that the contract be awarded to Greiling Bros. Co., Green Bay.

RAILROAD SYSTEM EXTENSION.—Boston, Mass.—Bids were received as follows by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., on Sept. 17, for railroad system extensions at the U. S. Navy Yard, Boston; Wm. A. Smith is Acting Ch. Bureau. Rendle & Stoddard, 333 Border St., East Boston, Mass., $23,971; $19,329; $17,300; $12,[illegible]; G. & W. Mfg. Co., 30 Church St., New York, N. Y., $26,953, $22,900, $21,313, $17,[illegible] (six months); C. M. Leach, P. O. Box [illegible], Boston, Mass., $18,645, $15,000, $13,[illegible], $9,875; W. H. Ellis, 18 Tremont St., Boston, Mass., $24,719, $18,819, $17,120, $12,258.

WATERWAYS.—Chicago, Ill.—The War Department at Washington, D. C., has appointed the following committee of engineers to pass upon the feasibility of the Lakes-to-Gulf Waterway project: George W. H. Bixby, U. S. A., Ch. of Engrs., Washington, D. C.; Col. C. McD. Townsend, U. S. A., at Detroit, Mich.; Maj Charles Keller, U. S. A., at Rock Island, Ill.; Maj. James B. Cavanagh, U. S. A., at Washington, D. C., and John Bogart, Consult. Engr., 141 Broadway, New York, N. Y. The committee will determine the feasibility of the 14-ft. channel scheme from mouths of Ohio and Illinois Rivers and for the Mississippi River. It will also take up the Des Plaines and Illinois Rivers plans.

FIRE EXTINGUISHERS.—Washington, D. C.—Bids were received as follows on Sept. 19, by the Commissioners of the District of Columbia for furnishing 530 fire extinguishers: Rex Fire Extinguisher Co., New York, $8.50, $7, $6.25; Washington Rubber Co., Washington, $6; Philip Josephs, Baltimore, $5.95; Barber & Ross, Washington, $4.90; Edro-Richardson Brass Co., Baltimore, $6.40; J. Boyd & Bro., Philadelphia, $5.34, $5.24, $4.98; Combination Ladder Co., New York, $5.48; American La France Fire Engine Co., Elmira, N. Y., $5.38, $5.31; H. C. Rowns' Sons, New York, $10.03, $8.85; National Electrical Supply Co., Washington, $5.50; H. J. M. Howard Mfg. Co., Washington, $5.674953.

FILLING PRIVILEGE.—New York, N. Y.—Bids will be received by the Commissioner of Docks at Pier A, foot of Battery Pl., New York, until noon, Sept. 29, for the right to dump and fill behind the bulkhead wall recently built at the Whale Creek Improvement, Boro. of Brooklyn. The work to be done is to fill in with suitable material the area behind the new bulkhead wall extending from the return crib at the end of the wall on the southwestern corner of the improvement to the angle in the wall near the southeastern corner. The filling shall be brought to a grade of about 9½ ft. above mean low water. It is estimated that the area outlining the above described limits will create a basin to be filled in, under the agreement. These cubical contents in the net void space are equal to 10,000 cu. yds.

*SUBWAY OR VIADUCT PLANS.—St. Joseph, Mo.—Competitive plans will be received by the Board of Public Works of the City of St. Joseph, until 11 a. m., Oct. 15, for the construction of a viaduct or subway on south Sixth St. to cross railroad tracks north and south of the Union Passenger Station in St. Joseph. The plans are to be in shape of general sketches showing mode and system of construction, outline specifications and a safe conservative estimate of the cost, all to comply with the requirements of the Charter of the City of St. Joseph, Missouri. All plans to be filed with the Clerk of the Board of Public Works. Competitors will state terms for service in case their plans are accepted by the Board. The terms are to include all surveys, plans, specifications and supervision. Alfred Meier is Pres.; George F. Barnes, Clerk.

DAMS, ETC.—Rock Island, Ill.—Bids were received on Sept. 1, by Maj. Chas. Keller, Corps Engrs., U. S. A., at Rock Island, for construction and repairs of dam and shore protection and contracts have been recommended for acceptance as follows: Between Clayton and Dubuque and between Rock Island and Burlington, ALBERT KIRCHNER, Fountain City, Wis., at $1.53 per cu. yd. for rock; 61 cts. per cu. yd. for brush; average per cu. yd., 91 2-3 cts.; total number of cu. yds. material to be placed, 41,545 and 46,353 cu. yds., respectively. Between Keokuk and Hannibal, ALBERT V. FETTER, Quincy, Ill., rock per cu. yd., $1.65, and brush, 65 cts.; average per cu. yd., 93 1-3 cts.; total number of cu. yds., 43,220. Between Clarksville and mouth of Illinois River, RUST, SWIFT & CO., of St. Louis, Mo., $1.55 per cu. yd. for rock; 60 cts. per cu. yd. for brush, average, 91 2-3 cts. per cu. yd.; total number of cu. yds., 41,454.

DREDGING.—Montgomery, Ala.—Bids were received as follows on Sept. 16, by Capt. H. B. Ferguson, Corps Engrs., U. S. A., for dredging at entrance to Saint Andrews Bay, Fla.; also for dredging channel from Apalachicola River to St. Andrews Bay, Fla., the following being an abstract of the bids received: Entrance to St. Andrews Bay, Southern Dredging Co., Mobile, Ala., 17½ cts. per cu. yd.; Home Dredging Co., Mobile, Ala., 12.23 cts. per cu. yd.; Hillsboro Dredging Co., Tampa, Fla., 18 cts. per cu. yd.; North American Dredging Co., Galveston, Tex.; 40 cts., per cu. yd. Channel, Apalachicola River to St. Andrew's Bay, Southern Dredging Co., Mobile, Ala., 12.7 cts. per cu. yd.; Hillsboro Dredging Co., Tampa, Fla., 23 cts. per cu. yd.; Home Dredging Co., Mobile, Ala., 13.73 cts. per cu. yd. No award has been made.

*LOCKS AND DAMS.—Pittsburg, Pa.—Bids were received on Sept. 8, by Lieut. Col. H. C. Newcomer, Corps Engrs., U. S. A., Pittsburg, Pa., for constructing Lock and Dam No. 9, Ohio River, at New Cumberland, W. Va., and Lock and Dam No. 7, Ohio River, at Midland, Pa. The T. A. Gillespie Co. of Pittsburg and the National Contracting Co. of Evansville, Ind., were the lowest bidders. The T. A. Gillespie Co.'s bid on Dam No. 7 was $750,645.79 and the National Contracting Co.'s bid on Dam No. 9 was $912,457.

Other estimates submitted were as follows: On Dam No. 7, Pneumatic Caisson Co., New York, $839,834; National Contracting Co., Evansville, Ind., $762,669; Dravo Construction Co., Pittsburg, Pa., $822,870; Ohio River Contracting Co., Evansville, Ind., $860,649. On Dam No. 9, Ohio River Construction Co. $1,141,363; Sheridan-Kirk Construction Co., Cincinnati, Ohio, $1,079,898; Dravo Construction Co., Pittsburg, Pa., $1,110,363; Pneumatic Caisson Co., $1,000,125, T. A. Gillespie Co., $961,617.

DRAINAGE CANALS.—Cleveland, Miss.—Bids will be received by the Board of Drainage Commissioners, of Bolivar County, at the office of Sillers & Owen, Attorneys, Cleveland, Miss., until 2.30 p. m., Oct. 12, for excavating the following drainage canals: Bogue Hasty—Length, 35,705; average cut, 5 ft.; bottom widths 28 and 40 ft.; excavation 317,250 cu. yds. Pecan Bayou—Length 51,300 ft.; average cut 5.5 ft.; bottom widths 10, 12 and 14 ft.; excavation 163,215 cu. yds. East Bogue Hasty—Length, 70,830 ft.; average cut 5.1 ft.; bottom widths 10 and 12 ft.; excavation 213,650 cu. yds. Icy Bayou—Length, 54,036 ft.; average cut, 4.6 ft.; bottom widths, 10 ft.; excavation 133,690 cu. yds. West Bogue Hasty—Length, 66,073 ft.; average cut, 4.4 ft.; bottom widths 10, 12 and 20 ft.; excavation 146,220 cu. yds. Total length, 52.6 miles; total excavation, 974,025 cu. yds. About 15% of the work is through heavily timbered land, 10% is through cleared land and the remaining 75% is through light timber. Oak, ash gum, elm and cypress are the predominant timbers to be encountered. W. W. Boone is Ch. Engr., Bogue Hasty Drainage District.

U. S. POSSESSIONS.

LUMBER.—Panama.—Bids were received as follows on Sept. 19, under Circular 602, by Capt. F. C. Boggs, Corps of Engrs., U. S. A., General Purchasing Officer, Isthmian Canal Comn., Washington, D. C., for furnishing 1,575,000 ft. B. M. of lumber, either Douglas fir or long leaf yellow pine: Bay Shore Lumber Co., Mobile, Ala., $33,032, $32,649, if awarded entire amount; G. Elias & Bro., Buffalo, $37,573; S. E. Naylor & Co., Gulfport, Miss., $35,335; W. C. Rodgers, Hattiesburg, Miss., $39,934; Chicago Lumber & Coal Co., St. Louis, $32,727; Georgia Pine Co., Baltimore, $37,746; D. L. Gillespie & Co., Pittsburg, $36,804, $36,410, for entire order; W. R. Grace & Co., San Francisco, $33,705 (Balboa delivery); National Lumber & Box Co., Seattle, Wash., part, $5,500; Natalbany Lumber Co., Hammond, La., $37,523; A. S. Bacon & Sons, Savannah, Ga., $37,800.

*TRACK MATERIAL.—Panama.—Bids are asked under Circular 605, until 10.30 a. m., Oct. 3, by Capt. F. C. Boggs, Gen. Purchasing Officer, Isthmian Canal Comn., Washington, D. C., for furnishing four sections of electric locomotive track, one right-hand and one left-hand section for the side walls of the upper lock at Gatun, and one right-hand and one left-hand section for the side walls of the Pedro Miguel locks. Each section of track includes about 1,185 ft. of straight track and one horizontal reverse curve of 200 ft. radius. The total amount comprises 306,720 lbs. steel rail, 90-lb.; 25,364 lbs. splice bars, 1,836 lbs. track bolts and hexagon nuts, 183,056 lbs. steel cross-ties, 5,472 tie clips, 5,472 steel bolts and nuts for tie clips, 816 lbs. malleable-iron washers, 64,675 lbs. steel channels, 1,360 lbs. steel bolts and nuts for channels, 4,677 lbs. brass bolts and nuts for channels, 400 rail bonds. In connection with the same work, the Commission is asking for bids on two hydraulic compressors, two manual operated double-twin drills, and two motor-driven double-twin drills.

EXAMINATIONS.

BUSINESS MANAGER.—Winnipeg, Man.—The City of Winnipeg will receive applications until Oct. 1 for the position of Business Manager of the Municipal Hydro-electric Power Plant. M. Peterson is Secy. of the Board of Control.

TEACHER.—Haskell, Kan.—The U. S. Civil Service Commission announces an examination on Oct. 19 to secure eligibles from which to make certification to fill a vacancy in the position of Teacher of Woodworking and Mechanical Drawing, $800 a year, with quarters, Haskell Institute, Kan., and vacancies requiring similar qualifications as they may occur. Application and examination form 1312.

LABORATORY HELPER.—Washington, D. C.—The U. S. Civil Service Commission announces an examination to secure eligibles from which to make certification to fill vacancies which are constantly occurring in the position of Laboratory Helper, $600 a year, in the Bureau of Chemistry, Department of Agriculture. Applications must be filed prior to closing hour on Oct. 8. Application form 1312.

(Continued on page 138.)

CONTRACT PRICES.

(*Denotes that this work is advertised in Engineering News.)

BARGE CANAL.—Albany, N. Y.—The item prices of the bids received by F. C. Stevens, Supt. Public Works, Sept. 7, for Barge Canal Contract No. 50, providing for the construction of a reservoir and dam on the West Canada Creek at Hinckley, were: (A) Engineer's estimate; (B) Buffalo Dredging Co., Buffalo, N. Y.; (C) Larkin & Sangster, St. Catharines, Ont.; (D) Michael J. Dady, Brooklyn, N. Y.; (E) Lane Brothers Co., Altavista, Va.:

RESERVOIR AND DAM, NEW YORK BARGE CANAL.

	A	B	C	D	E
Clearing (lump sum)	$20,500.00	$20,500.00	$22,500.00	$24,600.00	$20,500.00
137,700 cu. yds. excavation	.53	.46	.45	.60	.50
420 M. ft. B. M. sheeting and bracing	50.00	45.00	50.00	50.00	50.00
1,000 lin. ft. round timber bracing	.15	.15	.15	.15	.15
46,000 sq. ft. channeling	.20	.24	.20	.20	.23
602,000 cu. yds. forming embankment	.30	.28	.27	.33	.27
7,100 cu. yds. lining	1.25	1.25	1.25	1.25	1.25
3.5 M. ft. B. M. sawed lumber	100.00	100.00	100.00	100.00	100.00
5 M. ft. B. M. wooden sheet piling	50.00	50.00	50.00	50.00	50.00
1,000 sq. ft. steel sheet piling	1.50	1.50	1.50	1.50	1.50
8,900 cu. yds. second-class concrete	6.75	6.00	6.40	6.75	6.75
36,450 cu. yds. third-class concrete	6.00	5.00	5.75	6.00	6.00
110 cu. yds. reinforced concrete	14.00	16.00	14.00	14.00	14.00
63,900 cu. yds. Cyclopean masonry	6.00	5.00	5.60	6.00	5.90
500 sq. yds. first-class stone paving	2.25	2.50	2.25	2.25	2.25
100 sq. yds. second-class stone paving	2.00	2.25	2.00	2.00	2.00
100 sq. yds. third-class stone paving	1.75	2.00	1.75	1.75	1.75
4,435 sq. yds. cobblestone paving	1.00	1.15	1.00	1.00	1.00
250 cu. yds. first-class riprap	2.50	2.75	2.50	2.50	2.50
250 cu. yds. second-class riprap	2.25	2.50	2.25	2.25	2.25
19,500 cu. yds. third-class riprap	2.00	2.40	2.00	2.00	2.00
2,475 cu. yds. fourth-class riprap	1.75	2.00	1.75	1.75	1.75
536,000 lbs. cast-iron pipe and specials	.02½	.03	.02½	.02½	.02½
125 lin. ft. vitrified pipe	.25	.25	.25	.25	.25
62,500 lbs. structural steel	.04½	.05	.04½	.04½	.04½
11,400 lbs. metal reinforcement	.03½	.03½	.03½	.03½	.03½
41,000 lbs. iron castings, plain	.04	.04	.04	.04	.04
7,250 lbs. iron castings, machined	.05	.06	.05	.05	.05
1,400 lbs. bronze castings (inc. brass)	.50	.50	.50	.50	.50
400 lin. ft. wrought-iron pipe railing	1.25	1.25	1.25	1.25	1.25
1,300 lin. ft. drilling bolt holes in rock	.60	.60	.60	.60	.60
Sluice gate apparatus, valves, pipe, etc., for North Gate Chamber (lump sum)	6,580.00	7,100.00	6,580.00	6,580.00	6,580.00
Skylights, hardware, etc., for North Gate Chamber (lump sum)	770.00	810.00	770.00	770.00	770.00
Sluice gates, etc., for South Gate Chamber (lump sum)	2,600.00	3,000.00	2,600.00	2,600.00	2,600.00
Skylights, hardware, etc., for South Gate Chamber (lump sum)	250.00	300.00	250.00	250.00	250.00
Cofferdams, pumping, bailing and draining (lump sum)	15,500.00	18,000.00	16,500.00	18,600.00	15,500.00
Maintaining highway traffic (lump sum)	500.00	500.00	500.00	500.00	500.00
Removing and storing bridges (lump sum)	700.00	700.00	700.00	700.00	700.00
Removing the contents of vaults, etc. (lump sum)	1,000.00	1,200.00	1,000.00	1,000.00	1,000.00
Deduct price to be paid to the State of New York for buildings in place, which are to be removed by the contractor without expense to the State (lump sum)	2,100.00	2,100.00	2,100.00	2,100.00	2,100.00
Totals	$1,076,000	$963,415	$1,015,381	$1,110,899	$1,048,799

SEWERS.—Chicago, Ill.—Bids were received by the Board of Local Improvements for constructing brick sewers from the following: (A) Dennis Cleary, 5532 Winthrop Ave.; (B) The Ryan Co., 1112 Tacoma Bldg.; (C) American Engineering & Construction Co., 59 Clark st.; (D) Federal Improvement Co., 949 The Rookery; (E) Parker-Washington Co., 20 Chamber of Commerce Bldg. A. V. Standish is Secretary to the Board. The itemized bids are as follows:

SEWERS, CHICAGO, ILL.

	(A)	(B)	(C)	(D)	(E)
3,300 lin. ft. 3-ring sewer, 6½ ft	$9.00	$11.00	$11.12	$10.60	$12.79
2,660 lin. ft. 3-ring sewer, 6¼ ft	9.00	10.00	10.73	10.45	12.20
1,350 lin. ft. 2-ring sewer, 6 ft	9.00	7.25	6.81	7.85	8.41
2,660 lin. ft. 2-ring sewer, 5½ ft	7.00	6.00	6.28	7.45	7.77
1,180 lin. ft. sewer, 2½ ft	6.00	3.25	2.10	3.15	4.95
3,900 lin. ft. 2-ring sewer, 4¾ ft	5.00	5.20	5.37	6.50	6.59
2,660 lin. ft. 2-ring sewer, 4½ ft	5.00	4.60	5.24	6.30	6.76
1,340 lin. ft. sewer, 2 ft	3.50	3.00	1.96	2.65	4.38
Totals	$129,430	$129,486	$131,601	$143,152	$162,666

PAVING.—Chicago, Ill.—Bids were received Sept. 2 by the Board of Local Improvements for paving in East 55th St., West North Ave. and Cottage Grove Ave. The bidders were: (A) Union Paving Co., 184 La Salle St., Chicago, Ill.; (B) Parker-Washington Co., 134 La Salle St., Chicago, Ill.; (C) Jno. A. McGarry & Co., 188 East Madison St., Chicago, Ill.; (D) American Asphalt Paving Co., Chamber of Commerce Bldg., Chicago, Ill.; (E) Jos. Hanreddy, 79 Dearborn St., Chicago, Ill.; (G) Citizens Construction Co., Chamber of Commerce Bldg., Chicago, Ill.; (I) The Ryan Co., 1112 Tacoma Bldg., Chicago, Ill.; (J) The Barber Asphalt Paving Co., Tribune Bldg., Chicago, Ill.; (K) Jas. A. Sackley Co., Chamber of Commerce Bldg., Chicago, Ill.; (L) R. F. Conway Co., Chamber of Commerce Bldg., Chicago, Ill.

The itemized bids were as follows:

PAVING EAST 55TH ST., CHICAGO, ILL.

	(B)	(D)	(J)	(I)
1,920 lin. ft. gutter, granite concrete	$0.60	$0.615	$0.56	$0.60
100 sq. ft. concrete sidewalk	0.20	0.19	0.20	0.20
2,840 sq. yds. asphalt	2.42	1.92	2.39	2.23
10 catch basins	45.00	45.00	45.00	45.00
200 lin. ft. sewer pipe, 9-in	0.75	0.75	0.75	0.75
Totals	$8,760	$7,368	$8,541	$8,220

PAVING WEST NORTH AVE., CHICAGO, ILL.

	(A)	(B)	(G)	(K)	(L)
12,210 lin. ft. curbing sandstone	$0.64	$0.70	$0.55	$0.50	$0.67
2,200 lin. ft. stone curb, reset	0.25	0.20	0.40	0.25	0.30
2,950 sq. ft. concrete sidewalk	0.20	0.18	0.20	0.15	0.20
12,000 cu. yds. excavation, earth	0.25	0.40	0.37	0.75	0.10
41,300 sq. yds. vitrified brick	2.135	2.19	2.14	2.28	2.36
10 catch basins	45.00	45.00	45.00	45.00	45.00
80 catch basins, adjusted	20.00	20.00	20.00	20.00	20.00
Totals	$103,105	$107,800	$103,892	$113,096	$111,104

PAVING COTTAGE GROVE AVE., CHICAGO, ILL.

	(A)	(B)	(C)	(E)	(G)	(J)	(K)	(I)
5,260 lin. ft. combined curb and gutter, granite concrete	$0.57	$0.57	$0.22	$0.63	$0.58	$0.55	$0.60	$0.60
5,240 lin. ft. gutter, granite concrete	.34	.34	.30	.41	.33	.32	.34	.37
400 sq. ft. sidewalk, concrete, patching	.20	.18	.12	.25	.20	.15	.15	.20
10,500 cu. yds. excavation, earth	.60	.40	.50	.40	.80	.60	.40	.10
18,400 sq. yds. paving, wood, 6-in. concrete foundation	2.81	2.89	2.92	3.47	2.86	2.63	3.06	3.24
34 catch basins	45.00	40.00	45.00	45.00	45.00	45.00	45.00	45.00
10 manholes, adjusted	45.00	45.00	45.00	45.00	45.00	45.00	45.00	45.00
26 catch basins, adjusted	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
30 manhole covers	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
1,000 lin. ft. sewer pipe, 9-in	.75	.75	.75	.75	.75	.75	.75	.75
20 inlet gratings	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Totals	$66,214	$65,408	$65,105	$76,960	$69,234	$62,672	$68,825	$69,293

EXAMINATIONS.

(Continued from Page 137)

DRAFTSMAN.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Oct. 19, to secure eligibles from which to make certification to fill a vacancy in the position of Draftsman (male), Soil Survey, Bureau of Soils, Department of Agriculture, at $1,200 a year, and vacancies requiring similar qualifications as they may occur, unless it shall be decided in the interest of the service to fill the vacancy by reinstatement, transfer, or promotion. Age limit, 18 years. Application and examination form 1312. Applications must be filed prior to closing hour on Oct. 19.

MECHANICAL AND TOPOGRAPHIC DRAFTSMEN.—Panama.—The U. S. Civil Service Commission announces examinations on Oct. 12-13 to secure eligibles from which to make certification to fill vacancies as they may occur in the positions of Mechanical and Topographic Draftsmen in the Isthmian Canal Service. The entrance salaries of these positions are as follows: Mechanical draftsman, first class, $150 a month; second class, $125 a month; topographic draftsman, $125 a month; tracer, $100 a month. Applicants for Topographical Draftsman must indicate in form 1312 that they have had at least three years' experience in civil engineering work or are graduates in civil engineering from a reputable school. Applicants must have reached their 20th but not their 45th birthday on date of examination. Application form 1312. Applications must be filed prior to closing hour on Oct. 1.

ALBANY, N. Y.—The following examinations will be held by the State Civil Service Commission, Albany, on Oct. 15:

ASSISTANT STEAM ENGINEER.—State and County Hospitals, Departments and Institutions. Salaries, $480 to $900 with maintenance when employed in institutions. Candidates must have had two years' practical experience as machinist, boilermaker, steam fitter, oiler, fireman, engineer or electrician, including at least one year in the operation of stationary engines or electrical machinery. Subjects of examination and relative weights: Practical and technical questions on the operation and repair of steam engines, boilers, steam-heating apparatus and electrical machinery, 6; experience, education and personal qualifications, 4. A vacancy exists at the Rome Custodial Asylum at $40 per month and maintenance.

FORESTER.—Forest, Fish and Game Commission. Salary, $900 to $1,200 a year. Subjects of examination and relative weights: Technical forestry, practical questions on systems of forest management, fire protection, working plans, etc., 10; lumbering, 3; dendrology, 2; training and education, 3; practical experience in forestry work, 7. Open to non-residents.

HIGHWAY INSPECTOR, County Service. Salary, $3.50 to $4.50 a day. Open to residents of the following counties only: Allegany, Cattaraugus, Chautauqua, Clinton, Essex, Franklin, Fulton, Hamilton, Lewis, Livingston, Madison, Nassau, Niagara, Ontario, Otsego, Putnam, Schenectady, Schoharie, Schuyler, Seneca, Steuben, Suffolk, Sullivan, Tioga, Warren, Washington, Wyoming, Yates. The Highway Law requires that, "Inspectors of Construction shall be residents of the county within which the highway constructed or improved is located." Candidates must have had one year's practical experience in the construction or maintenance of highways. Subjects of examination and relative weights: Practical experience on the inspection and construction of highways, inspection of materials and concrete, etc., 1; experience, education and personal qualifications, 1.

INSPECTOR OF MASONRY. Salary, $3.50 to $5 a day. Candidates must have thorough practical experience as engineer, foreman or inspector on public works or other engineering construction. Subjects of examination and relative weights: Practical questions on materials, construction and inspection of concrete, stone and brick masonry, including preparation of forms and foundations, computation of quantities, etc., 6; experience, education and personal qualifications, 4.

SUPERINTENDENT OF CONSTRUCTION. Office of the State Architect. Minimum salary, $1,800 a year, with advancement as the quality of work performed and length of service will warrant. Time allowed for examination, eight hours. Applicants must have had at least five years of practical experience in building construction either as a Superintendent of Construction, Contractor, Architect or Engineer and must establish this experience to the satisfaction of the Civil Service Commission prior to being admitted to the examination. Subjects of examination and relative weights: Materials and building construction, including plumbing, heating and electric work, and involving extensive knowledge of all materials employed in first-class buildings and details of construction, business communications with reference to work under construction and knowledge of details of complete specifications for various work, 6; training and experience, 4. Applicants who have not had sufficient training and experience to entitle them to a rating of at least 60 in that subject will not be admitted to the examination. The duties of the position require the appointee's continuous residence wherever the building under his superintendence is being constructed, but as the necessity of the service requires that superintendents of construction shall serve in any part of the state, they may be detailed from building to building as necessary. Non-residents will be admitted.

Applications should be filed on or before noon of Oct. 8. No application will be accepted unless properly executed and filed with the State Civil Service Commission, Albany, N. Y., in time to arrange for the examination.

INDUSTRIAL NOTES.

A NEW PLANT IS BEING built in Brooklyn, N. Y., for the U. S. Interstructable Gasket Co., 50 Church St., New York City.

THE GARWOOD ELECTRIC CO., GARWOOD, N. J., has appointed Mr. Hugh A. Brown Manager of the Chicago office at 555 Old Colony Bldg., Chicago.

THE ROCKWELL FURNACE CO., 26 Cortlandt St., New York City, announces that a Chicago office has been opened at 718 Fisher Bldg. This will be in charge of Mr. A. L. Stevens.

THE AMERICAN CAR & FOUNDRY CO., New York, has recently secured an order for $1,000,000 worth of cars to be shipped to Argentine. The Harlan & Hollingsworth Co., Wilmington, Del., also have a contract for $400,000 worth of rolling stock to be shipped to the same country.

MR. L. J. CORBETT, Assoc. Am Inst. E. E., has removed his office to the new Realty Building, 244 Riverside Ave., Spokane, Wash., where he will continue his general practice in consulting engineering. For the past four years, Mr. Corbett had maintained an office in the Empire State Building, Spokane, Wash.

THE H. W. JOHNS-MANVILLE CO., 100 William St., New York City, has opened branches at Atlanta, Ga., and Rochester, N. Y. The Atlanta branch will be in charge of Mr. W. F. Johns, and is located in the Empire Bldg. The Rochester office is under the direction of Mr. H. P. Domie at 725 Chamber of Commerce.

THE DIFFICULTY OF FINANCING municipal improvements is well shown by a perusal of the columns of financial journals where such items are tabulated. In a recent issue the following amounts were reported unsold: $47,000 of 6% bonds; $350,000 of 5% bonds; $3,268,000 of 4% and $203,000 of 4½%. In addition there were numerous reports from city and county officials of bonds sold only in part.

THE INTERBOROUGH RAPID TRANSIT CO. has recently prepared statements showing that the passengers carried on the subway and elevated lines in New York City during the year ending June 30, 1910 numbered 562,700,000 compared with 514,600,000 in the preceding year. Both the subway and elevated divisions made new high records, the subway carrying 268,000,000 passengers and the elevated 293,000,000.

PAWLING & HARNISHFEGER CO., of Milwaukee, Wis., designers and builders of traveling electric cranes and hoists, announce the appointment of Mr. Arthur Fritsch as Manager of their Chicago office to succeed Mr. W. E. Kreamer, resigned. Mr. Fritsch was formerly connected with the engineering and sales department of the Allis-Chalmers Co. His headquarters will be in the Monadnock Block, Chicago, Ill.

MR. A. R. RICHIE, of the Ornstein-Arthur Koppel Co., Pittsburg, Pa., sailed for Germany last week. He expects to confer with the general officers of the company regarding making additions to the American plant at Koppel, Pa. The company, which manufactures contractors' equipment such as light steel cars and portable track, and other light equipment, is an international one having factories in Germany and also at a number of points in the United States.

HAROLD L. BOND CO., with offices in Boston and New York, has recently furnished the American College for Girls in Constantinople, Turkey, with a complete quarry outfit. This includes Wood rock drills, made by the Wood Drill Works, Paterson, N. J., and two hoisting engines, made by J. S. Mundy, Newark, N. J. The work will be under the supervision of Mr. W. H. Hibbard, of Boston, who will quarry the stone and construct the necessary buildings. Native labor will be employed.

JAMES B. CLOW & SONS, Chicago, are operating at their pipe works at Coshocton, Ohio a 1,500-HP. producer-gas plant which supplies all of the power, light, compressed air and water required in the plant in addition to the gas required in drying the cores and flasks used in the pipe foundry. The firm has retained Henry I. Lea, consulting gas engineer, of Chicago, for the purpose of recommending alterations and extensions made necessary by the rapid growth of the plant, which will soon require 3,000 HP. in producer capacity.

THE NATIONAL FIREPROOFING CO., Fuller Bldg., New York City, has in conjunction with a Canadian interest organized a corporation known as the National Fireproofing Co., Ltd., of Canada, and will construct a $1,000,000 plant at Hamilton, Ont. for the manufacture of hollow wall tile and other fireproofing building material. The company also contemplates the construction of a new plant near Elkton, Md., between Wilmington and Baltimore. This factory will supply much of the territory South of Mason and Dixon's line.

BATES & CHESEBROUGH, Los Angeles, Cal., are the agents for a new steamship route to the Isthmus. The first boat will leave Los Angeles early in October and thereafter every 15 days. The company also has one boat on the Atlantic seaboard running from New York to Colon and stopping at New Orleans and Charleston. The company will transport materials for the Isthmian Canal Commission, and is endeavoring to develop, through traffic between California and the Atlantic Coast in conjunction with the Panama Railway.

A NEW DRY DOCK is now rapidly nearing completion in Southampton, England, which will accommodate the new 45,000 ton White Star steamers now being built.

This dock area will have at low water a depth of 35 feet, and the intention is to bring it to 40 feet within the next three years. The new basin will take in five of the largest ships at one time, most compactly placed for the purpose of traffic. There are six dry docks now in use, ranging from 250 to 875 feet and ships of 26,000 tons register have been successfully docked.

THE U. S. CONSUL AT CAMPBELLTON, N. B., reports that losses by fire July 11 were estimated at $3,500,000, of which approximately 25% was covered by insurance. This was promptly adjusted and rebuilding has been commenced. The community, which numbered about 4,600, has been reduced to 1,500, but already three banks, three wholesale grocery and provision houses and 35 retail dealers have resumed business; 400 buildings have bten erected, largely dwellings, and fire limits have been ordered. Concrete will supplant natural stone for building here, it being noticeable that the stone did not withstand the fire.

THE ALLIS-CHALMERS CO., Milwaukee, sent a No. 10 Gates rock breaker to Sweden, where it was started in operation about the middle of January, 1910, and has been in almost continuous service since that time. The ore crushed is a dense magnitite, being extremely variable in quality, some of it being brittle and the other friable. In a letter telling of the working of the breaker appears the following statement: "The power consumption when the breaker runs idle is about 30 KW. and when loaded about 100 KW., although the consumption at times rises to 150 KW. and more. The capacity varies from 240 tons per hr. on material difficult to crush to 330 tons on easily crushed ore.

A TRACK MATERIAL AND SUPPLY ASSOCIATION was organized by the exhibitors at the annual meeting of the Roadmasters and Maintenance-of-Way Association at Chicago, Sept. 16, its object being to make better arrangements for an exhibit at the meeting at St. Louis in October, 1911. About 20 firms were represented, and officers were elected as follows: President, Wm. Goldie (Dilworth & Porter Co.), Pittsburg, Pa.; Vice-President, J. M. Holloway (American Steel & Wire Co.), Chicago; Executive Committee, John McKinnon (Kalamazoo Railway Supply Co.), Kalamazoo, Mich., and W. C. Kidd (Ramapo Iron Works), Hillburn, N. Y. Secretary, H. C. Holloway (The Rail Joint Co.), Chicago.

THE MARION SHOVEL & DREDGE CO., Marion, Ohio, expects to have its new plant under contract some time this month. The company will make steam shovels, dredges, ballast unloaders and similar machinery. It is expected that the output will be about ten shovels a month at the start, but provisions have been made for extending the capacity of the plant. The buildings will be of reinforced concrete and brick with strictly first-class equipment. The men associated with this new enterprise are substantial business men, who have had much experience in similar lines of work. The list of officers is as follows: John D. Owens, Pres.; A. E. Cheney, Secy. and Gen. Mgr.; Geo. D. Copeland, Treas.; H. G. Barnhart, Ch. Engr., and C A. Owens, D. W. Evans and Geo. B. Christian, Jr., Vice-Pres.

IDLE FREIGHT CARS numbered 50,729 on Aug. 31, according to the bulletin of the American Railway Association. Decreases in car surpluses were quite general. Lines operating in New England, which showed an increased surplus in the report of a fortnight ago, reported a decrease of over 40%, with shortages in all classes aggregating 770 cars. In the middle Atlantic states there was a materially increased demand for cars which manifested itself in a considerable reduction in the coal car surplus. Again, the middle West contributed a very large share to the total decrease in freight cars. The surplus fell off about 40%. In this territory further large decreases are to be expected by the time the fall freight movement reaches its maximum. Southern roads were affected principally by a greater demand for coal cars which substantially decreased the surplus. Freight offerings in Kansas, Missouri and Colorado were in keeping with the larger need for carriers in other sections of the country. The far West brought down its surplus of cars to a low level for 1910. The decrease at that time of the year is usual and it will probably continue until about Nov. 1.

Following is a table showing the surpluses at various dates:

	Net surplus.
Aug. 31	50,729
Aug. 3	102,781
July 6	142,865
June 8	126,497
April 27	96,319
Mar. 30	25,886
Mar. 3	15,408
Feb. 2	24,975
Jan. 19	26,844

A year ago the surplus was about [illegible]0,000.

THE CEMENT INDUSTRY IN THE UNITED STATES is the title of a pamphlet report recently issued by the U. S. Geological Survey. This report supplements the preliminary estimate given early in the year (Eng. News, May 12, p. 574). It shows that the total production of Portland cement in the year 1909 was 62,508,461 bbls., valued at $50,510,385. The production of natural cement was 1,527,279 bbls., valued at $623,141, and the production of puzzolan was 160,646 bbls., valued at $99,453.

The trend of the times seems to be toward wider distribution of cement manufacturing plants. In spite of the fact that the production of cement increased nearly 2[illegible]% during the year, the production in the Lehigh district only increased about 10% and even then was less than the production in that district in the years 1906 and 1907. The percentage of the total manufacture of the Lehigh district was 35.7%, being the smallest in any year since these statistics have been compiled. A notable increase was made in the Kansas district, there being ten producing plants in that state in 1909 compared with seven in 1908. In the states of California and Washington, the production last year was 4,017,000 bbls. compared with 3,268,000 bbls. in the preceding year. The eight plants in Ohio show only a fair increase, but in the states of Texas and Oklahoma one plant was added and the total production increased approximately 40%. The greatest gain was in the South. The states of Alabama, Georgia and Tennessee, three plants in all, produced 1,070,000 bbls. compared with a production of 310,000 bbls. in three plants in Alabama and Georgia in the preceding year. The lowest prices recorded in the Portland cement industry were reached in 1909, the value of cement in bulk at the mill being 81 cts. per bl. compared with 85 cts. in 1908 and $1.11 in 1907. The Survey estimated the kiln capacity of the country in 1909, making proper deductions for reasonable loss of time for repairs, at 93,500,000 bbls. of Portland cement.

The natural cement produce dropped to a still lower figure, the total production being about 150,000 bbls. less than in 1908. The production of puzzolan showed a slight increase of 9,000 bbls., but in spite of that it is lower than any year since 1898. Only four plants are now reported as making puzzolan cement, two being in New York, one in Pennsylvania and one in Alabama. For the first time in the history of the Portland cement trade in this country, the exports were more than 1,000,000 bbls., the figures as reported being 1,056,000.

"POOR'S MANUAL OF RAILROADS" for 1910 was issued last week. The present volume, although about 25% larger than the 1909 edition, contains only statements of railways and street railways, the statistics of industrial corporations having been published in a separate volume, "Poor's Manual of Industrials," which was issued last May. The total length of the steam roads on Dec. 31, 1909, as computed by this authority, was 238,356 miles, compared with 232,046 miles on Dec. 31, 1908. In the following table is a summary of the financial statistics as well as operating figures:

	1909.	1908.
Capital stock	$8,030,680,963	$7,641,913,086
Bonded debt	9,118,103,813	8,788,518,045
Other bonded obligations	793,497,799	804,455,084
Accrued liabilities	151,319,542	109,013,608
Miscellaneous liabilities	118,567,836	113,461,262
Bills payable and current accounts	933,646,991	940,361,739
Sinking funds, etc	311,448,385	246,833,907
Profit and loss	919,823,188	831,298,738
Total liabilities	$20,377,088,517	$19,475,855,559
Cost of railroad and equipment	$14,514,822,308	$13,902,227,797
Stocks and bonds owned	3,084,387,008	3,012,575,629
Real estate and other investments	907,873,063	926,287,633
Cash, bills receivable and current accounts	1,163,176,374	1,011,685,994
Material and supplies	213,124,839	223,784,568
Other assets	185,324,625	171,203,159
Sinking funds	177,859,392	122,313,373
Profit and loss	130,520,908	105,777,406
Total assets	$20,377,088,517	$19,475,855,559
Miles of road operated	237,867.70	228,285.73
Earnings—Passenger	$578,243,601	$575,246,516
Freight	1,720,863,413	1,650,989,952
Other	214,105,749	180,783,342
Total gross earnings	$2,513,212,763	$2,407,019,810
Net earnings	852,153,280	717,802,167
Other receipts	165,888,557	183,380,314
Total net income	$1,018,041,837	$901,182,481
Deductions: Taxes	90,790,949	82,377,619
Interest on bonds	318,755,456	304,475,354
Other interest	33,919,466	30,605,970
Dividends on stock	265,162,298	237,565,078
Miscellaneous	108,312,393	108,749,192
Rentals—Interest	34,406,772	36,308,746
Dividends	30,199,751	30,008,582
Miscellaneous	28,633,163	21,647,564
Total deductions	$910,180,248	$851,738,105
Surplus	107,861,589	49,444,376
Reveiue train-mileage: Passenger	519,262,551	510,699,062
Freight	589,309,266	589,323,097
Mixed	32,734,351	32,340,149
Total	$1,441,306,168	$1,132,362,308
Passengers carried	924,423,075	891,273,003
Pasenger mileage	29,896,152,391	28,985,670,148
Revenue per passenger-mile	1.934 cts.	1.964 cts.
Tons freight moved	1,635,215,800	1,521,065,494
Freight mileage	227,198,932,735	215,398,911,350
Revenue per ton-mile	0.737 cts.	0.767 cts.

TRADE PUBLICATIONS.

CONCRETE SILOS.—Edison Portland Cement Co., Stewartsville, N. J.; 6 × 9 ins.; pp. 71; illustrated.

This paper entitled "Concrete Silos," by Messrs. C. W. Gaylord and Percy H. Wilson, has been reprinted by the Edison Portland Cement Co. from the original paper published by the Association of Portland Cement Manufacturers.

CONCRETE PILES.—Raymond Concrete Pile Co., New York; 6 × 9 ins.; pp. 160; illustrated.

This company is one of the oldest building or designing concrete piles. Its process consists in driving a rigid shell inside which is a collapsible core which is withdrawn when the proper depth is reached, leaving the opening to be filled with the concrete that forms the pile. The present catalog is one of the largest the company has ever issued, and discusses the whole subject of concrete pile construction.

CAST-IRON PIPE.—McWane Pipe Works, Lynchburg, Va. "McWane's Hand-Book for Cast-Iron Pipe Users." Leather; 4 × 6½ ins.; pp. 64; illustrated.

This useful little book tabulates and classifies the stock of cast-iron pipe carried by the McWane Pipe Works. In addition, it contains standard specifications for cast-iron water pipe, tables of dimensions for various sizes of bell-and-spigot pipe, according to both the American and New England Water Works Association standards, tables of cost of pipe laying, loss of head in pipes due to friction and other tables of interest to pipe users.

GRADING SCRAPERS, PLOWS AND WHEELBARROWS.—The Sidney Steel Scraper Co., Sidney, O. Paper; 5½ × 6¾ ins.; pp. 44.

The Hastings wheeled scrapers and drag scrapers occupy a good part of this pamphlet, while other special forms of scrapers are included. The wheelbarrows are of both steel and wood construction and are of a variety of shapes for ordinary use and special purposes. Among the latter are low barrows for hauling stone and two-wheeled barrows for coal and ashes; also barrows with deep pans for carrying concrete and mortar, so as to avoid slopping or wasting of the load.

WATER SAVING FLUSH TANK APPARATUS.—Merritt & Co., Camden, N. J. Paper; 6½ × 9¾ ins.; pp. 4.

This folder gives the daily readings from April 12 to July 25, inclusive, of two flush tank meters at Greenville, S. C. The meters are made under the patent of H. D. Moise and are furnished for use in connection with the Merritt water-saving flush-tank apparatus. Each meter shows a very uniform rate of flow for the operation of the flush tank, one of the meters registering an apparent average of about 11 gals. per hour, with a range of from 8.95 to 14.02, and the other showing a very uniform flow of approximately 25 gals. per hr., the range being from 22.1 to 27.3 gals. per hr.

WOOD PRESERVATIVE.—C.-A-Wood-Preserver Co., Austin, Tex. Paper; 9 × 6 ins.; illustrated.

"C.-A.-Wood-Preserver" is described in the introductory pages as a pure coal-tar distillate containing an average of 92% distilling above 300° C. by the U. S. Forest Service method of analysis. It may be applied with a brush or simply poured over the timber to be treated, or the timber may be dipped in a tank of the preservative.

The bulk of the booklet consists of reproductions of letters relating to the manner of use and the results obtained with this preservative. Most of the letters are accompanied by photos of the work they mention. Railway ties, telephone poles and cross-arms, plank flooring, fence posts, sluice gates and trestle timbers are among the examples shown. In several instances the letters give comparative figures on the life of treated and untreated timbers. The increased life due to the preservative is given as from 30% to 300 or 400%.

ROAD ROLLERS.—J. I. Case Threshing Machine Co., Racine, Wis. Paper; 9 × 12 ins.; pp. 28; illustrated.

Case steam road rollers and Troy dump wagons are described in this catalog. The front roll of the Case roller is under the front end of the boiler instead of in front of it, as in the more usual arrangement. The front fork is made with a channel-shaped cross-section, ¾-in. thick, and is wider and flatter than the usual type. It turns on a ball-bearing bolster of large diameter, whose saddle is riveted to the under side of the boiler.

The weight of the boiler at the rear is carried on two double spiral springs hung from the rear axle. Radius links are provided to maintain the proper mesh between countershaft and axle gears. The roller is equipped with a differential gear, friction clutch and power steering device.

Either simple or compound engines are provided, and all engines are equipped with exhaust-steam feed-water heaters. The eccentric strap, of the valve gear, has an arm cast integrally with it and extending nearly vertically above the crankshaft. The upper end of the arm carries a rectangular maple block sliding in a metal guide. The inclination of the guide can be changed by means of a link connecting its lower extremity with the reverse lever. The eccentric rod is attached at a point between the end of the arm and the shaft. Speed control is obtained by means of a throttle valve, and an adjustable throttling governor is provided.

IRON IN WATER.—Hungerford & Terry, Inc., Philadelphia, Pa. Paper; 3½ × 6 ins.; pp. 15.

After stating the general problem of the removal of iron from water a brief description is given of a plant established for that purpose by Hungerford & Terry for the U. S. Government at Fort Hancock, Sandy Hook, N. J. The plant has a daily capacity of 760,000 gals., and treats the water from two deep wells. The iron in the water ranges from 5 to 7 parts per million. After the water has been raised by the air-lift pumps, forming a part of the water-works system, it is treated with clear lime water and is subjected to sedimentation and finally pumped through filters. The paper gives reports of chemical analyses, which, according to the author, seem to show that "satisfactory treatment of iron waters has been accomplished."

COAL-HANDLING PLANTS.—Jeffrey Manufacturing Co., Columbus, Ohio. Bulletin No. 42. Paper; 6 × 9 ins.; pp. 47; illustrated.

The first six pages show a plan and a number of good photographs of an all-steel coal tipple with a capacity of 500 tons per hour. This installation, which was recently completed for the Empire Coal & Coke Co. at Landgraff, W. Va., is briefly described in the text. The succeeding pages show photos of other coal-handling installations, including wire-cable car hauls, retarding conveyors, locomotive coaling stations, coal-washing systems, grabbucket systems, etc.

LIST OF CONTRACTS PENDING.

Light, Heat and Power Plants.

Bids open.		Noted in issue of
9-24	Wiring, Omaha, Neb	9-15
9-24	Lighting plant, Berea, Ohio	9-22
9-26	Elec. equip., New York	9-15
9-27*	Power-house, etc., Wheeling, W. Va.	9- 1
9-27	Light plant, Cadillac, Mich	9-22
9-27	Light system, New York,	9-22
9-28	Elec. supplies, New York	9-22
9-29	Boiler plant, Bremen, Ind	9-22
9-29*	Dam, Skowhegan, Me	9-22
9-29	Elec. plant impvts, Jackson, O.	9-15
9-30	Power-house, Alto, Ga	9-15
10- 1*	Power plant, Annapolis, Md	8-25
10- 1	Power equipment, Hudson, N. Y.	9-15
10-10*	Light plant, Allentown, N. J	9-22

Bridges.

Bids open.		Noted in issue of
9-26	Bridge, Elizabeth, N. C	9-15
9-26	Bridges, Terre Haute, Ind	9-22
9-26	Bridges, Colerain, Ohio	9-22
9-27	Bridges, Green Castle, Ind	9-22
9-27	Bridge, Prescott, Ariz	9-15
9-28	Bridge, Bala, Pa	9-22
9-28*	Bridges, Framingham, Mass	9-22
9-30	Bridges, Cincinnati, Ohio	9-22
10- 1	Bridges, Lawrence, Kan	9-22
10- 1	Bridges, Indianapolis, Ind	9-22
10- 1*	Superstructure, Quebec, Que	8-18
10- 1	Bridges, Dallas, Tex	9-15
10- 3	Bridges, Zanesville, Ohio	9-15
10- 3	Bridges, Crown Point, Ind	9-22
10- 3	Bridges, Shelbyville, Ind	9-22
10- 3	Bridges, Waukesho, Wis	9-22
10- 3	Bridges, Oswego, Kan	9-22
10- 3	Bridges, Winslow, Ariz	9-22
10- 3	Bridges, Holbrook, Ariz	9-22
10- 3	Bridges, Newport, Ind	9-22
10- 4	Bridges, Lebanon, Ind	9-22
10- 4	Bridges, Marion, Ind	9-22
10- 4	Bridges, Rushville, Ind	9-22
10- 5	Bridges, Cleveland, Ohio	9-22
10- 6	Bridges, Martinsville, Ind	9-22
10- 8	Bridges, Gothenburg, Neb	9-22
10-15*	Viaduct plans, St. Joseph, Mo.	9-22

Buildings.

Bids open.		Noted in issue of
9-24	School, Trenton, Ohio	9-22
9-26	School, Watervliet, N. Y.	9-22
9-26	Building, Frankfort, Ky	9-22
9-26	Court-house impvts., New Westminster, B. C.	9-15
9-26	Post-office, Greensburg, Pa	8-25
9-26	Schools, New York	9-15
9-27	Buildings, Toronto, Ont	9-15
9-27	School, Linicum, Pa	9-15
9-27	Theatre, Columbus, Ohio	9-22
9-28	Armory, Summerside, P. E. I.	9-22
9-28	Bldg. impvts., Gloucester City, N. J.	9-15
9-29	Post-office, Platteville, Wis	9- 1
10- 1	Buildings, Tacoma, Wash	8-25
10- 1	Hotel, Indianapolis, Ind.	9- 1
10- 1*	Freight house, El Paso, Tex. (Mfg. Pl.)	9- 1
10- 1	Building, New York, N. Y.	9-22
10- 3	Schools, New York	9-22
10- 3*	School, Wash., D. C.	9-22
10- 5	Court-house, Oneida, S. Dak	9-15
10-10*	Post-office, Macon, Mo	9-15
10-10	School, New York, N. Y.	9-22
10-11*	Repairs to quarters, Ft. Monroe, Va.	9-22
10-14	Hospital bldgs., New York	9-15
10-15	Quarters, Puget Sound, Wash.	9-15
10-15	Post-office, Fairbury, Neb	9-22
10-17	Police station, Memphis, Tenn	9-22
10-17*	Post-office, Canandaigua, N. Y.	9-15
10-24*	Post-office, Willmar, Minn	9-22
10-24	Post-office, Troy, Ala	9-22
11- 1	Plans, Toronto, Ont.	6- 9
11- 5	Remodeling gas house, Mare Island, Cal	9-15

Water-Works.

Bids open.		Noted in issue of
9-24	Distribution system, Orland, Cal.	9- 8
9-24	Water mains, Nottingham, Ohio	9- 8
9-26	Cisterns, Fort Howard, Md	9- 1
9-26	Wells, pumps, etc., Farmington, Minn.	9-15
9-26	Water-works, Irondequoit, N. Y.	9-22
9-27*	Water and sewer system, Thiells, N. Y.	9- 1
9-27*	Well, Depue, Ill	9- 8
9-28*	Reservoir site, etc., Ithaca, N.Y.	9-15
9-28*	Settling basin, Erie, Pa.	9-22
9-28	Pipe and reservoir, Austin, Minn	9-22
9-29	Water system, New York	9-22
9-29*	Pumps, Evansville, Ind	8-18
9-29	Laying main, Galveston, Tex	9-22
9-30	Reservoir, etc., Yuma, Ariz	9-15
9-30	Water-works materials, Alto, Ga.	9-15
9-30	Laying pipe, Orrville, Ohio	9-22
10- 3	Well, Oconomawoc, Wis	9-22
10- 4	Reservoir, Jacksonville, Fla.	9-22
10- 4	Water tank and mains, Alva, Okla.	9-29
10- 5	W.-Wks., Ocheyedan, Ia	9-22
10- 7	Water main, Salt Lake City, Utah	9-22
10-11	Laying pipe, Cleveland, Ohio	9-22
10-17*	Water-works, Oroville, Wash.	9-22
11- 1*	Reservoir, Bingham, N. Y.	9-22

Sewers.

Bids open.		Noted in issue of
9-23	Sewers, Princeton, Ill	9-15
9-23	Sewer, Huntington, W. Va	9- 8
9-23	Sewers, Troy, N. Y	9-15
9-24	Sewers, Nottingham, Okla	9- 1
9-24	Sewers, Moline, Ill.	9-22
9-24	Sewers, Upper Sandusky, Ohio	9-22
9-25	Sewers, Oberlin, Ohio	9-15
9-26*	Sewers, Atlantic City, N. J	9-15
9-26	Sewers, Hastings, Minn.	9-22
9-26	Sewers, Montgomery, Ala	9-22
9-26	Sewers, Porterville, Col	9-22
9-26	Sewers, Syracuse, N. Y	9-22
9-26	Sewers, Boston, Mass	9-22
9-27	Sewage disposal works, Swift Current, Sask	9-22
9-27	Sewers, Boston, Mass	9-22
9-27*	Sewers, Woodbury, N. J	9-15
9-29	Sewers, Brooklyn, N. Y	9-22
9-30	Sewers, Cincinnati, Ohio	9-22
10- 1	Sewers, West View, Pa	9-15
10- 1	Sewers, etc., West View, Pa	8-18
10- 1	Sewer bonds, Phoenix, Ariz	9- 8
10- 3	Sewer plans, Brawley, Cal	9-22
10- 3	Sewers, Pipestone, Minn	9-22
10- 3	Sewers, Emmetsburg, Ia	9-22
10- 5	Sewers, Jeffersonville, Ky	9-22
10- 5	Sewers, New York, N. Y	9-22
10-17*	Storm sewer, Muskogee, Okla	9-22

Streets and Roads.

Bids open.		Noted in issue of
9-23	Repaving, etc., New York, N. Y.	9-15
9-23	Road repairs, Toledo, Ohio	9- 8
9-23	Pavement, New York, N. Y	9-15
9-23	Paving, Troy, N. Y	9-15
9-23	Grading, etc., Fremont, Ohio	9-22
9-23	Alley imprvts, Troy, N. Y	9-22
9-23	State road work, Hartford, Conn	9-22
9-26	Paving, etc., Bellaire, Ohio	9-22
9-26	Paving, Syracuse, N. Y	9-22
9-26	Road, Chillicothe, Ohio	9-22
9-27	Road, etc., Boston, Mass	9-22
9-27*	Pavement, Decatur, Ind	9-22
9-27	Grading, etc., Hamilton, Ohio	9-22
9-27	Paving, New York, N. Y	9-22
9-27	Sidewalks, etc., New York, N. Y.	9-22
9-27	Grading, etc., Anderson, Ind	9-15
9-28	Grading, etc., Columbus, Ohio	9-22
9-29	Grading, etc., Mt. Vernon, Ohio	9-22
9-29	Paving blocks, New York, N. Y.	9-22
9-30	Curbs, etc., Fort Brady, Mich	9-22
9-30	Grading, etc., Greenville, Ohio	9-22
9-30	Resurfacing, Cincinnati, Ohio	9-15
10- 1	Gravel road, Indiana	9-22
10- 1	Paving, Boston, Mass	9-15
10- 1	Gravel road, Indianapolis, Ind	9-15
10- 1	Road, Moline, Ill	9-22
10- 1	Repairing road, Cleveland, O	9-22
10- 3	Gravel roads, Indiana	9-22
10- 3	Macadam, Indiana	9-22
10- 3	Curbing, etc., Jefferson, Mo	9-22
10- 3	Grading, etc., Santa Barbara, Cal.	9-22
10- 3*	Grading, etc., Ridgefield Park, N. J.	9-22
10- 4	Highway, Indiana	9-22
10- 4	Gravel roads, Indiana	9-22
10- 4	Stone roads, Indiana	9-22
10- 4	Rock roads, Indiana	9-22
10- 4	Macadam road, Indiana	9-22
10- 4	Gravel roads, Vincennes, Ind	9-22
10- 4	Road, Spencer, Ind	9-22
10- 4	Grading, etc., Cincinnati, O	9-22
10- 5	Gravel road, Indiana	9-22
10- 5*	Paving, etc., Birmingham, Ala	9-22
10- 5	Gravel road, Kokomo, Ind	9-15
10- 5	Roads, etc., Fort Dade, Fla	9-15
10- 6	Rock roads, Indiana	9-22
10-15	Gravel road, Indiana	9-22
10-15*	Roads, etc., Fort Sill, Okla	9-22
10-15*	Paving, Wilmington, N. C	9-15

Miscellaneous.

Bids open.		Noted in issue of
9-23*	Insulated cable, New London, Conn	8-25
9-23*	Metal shelving, Trenton, N. J	8-25
9-23*	Dredging, Mobile, Ala	8-25
9-23*	Riprap, Duluth, Minn	9- 1
9-23	Dredging breakwater, Cleveland, Ohio	9- 8
9-23	Vacuum cleaning system, Wilkes-Barre, Pa	9- 8
9-24	Mortuary, Brooklyn, N. Y	9- 8
9-24*	Dredging, Portland, Me	9- 1
9-24	Ditch, Columbus, Ohio	9-15
9-24	Levee, channel, Santa Ana, Cal.	9-15
9-24	Ditch, Plymouth, Ind	9-15
9-24	Conduit, etc., Omaha, Neb	9-15
9-26*	Dam, Cincinnati, Ohio	9- 1
9-26*	Dredging, Boston, Mass	9- 1
9-26*	Breakwater, Portland, Me	9- 1
9-26	Rock, Detroit, Mich	9- 8
9-29	Dredging, Norfolk, Va	9-15
9-27*	Dredging, Galveston, Tex	9- 1
9-27*	Dipper dredges, Nashville, Tenn.	9- 8
9-27*	Intake crib, etc., Louisville, Ky.	9-15
9-28	Wharf, walls, Hamilton, Ont	9-15
9-28	Clearing and filling, Aberdeen, Wash.	9- 1
9-29	Houses, Wheeling, W. Va	9- 1
9-29*	Dredging, Norfolk, Va	9- 1
9-29*	Dredging, Baltimore, Md	9- 1
9-29*	Dredging, Duluth, Minn	9- 8
9-29	Filling privilege, New York	9-22
9-30	Ditch work, Murphysboro, Ill	9-22
9-30*	Dredging, Duluth, Minn	9- 8
9-30*	Dredging, New York	9-15
9-30*	Dredge machy., Montgomery, Ala.	9-15
10- 1*	Dredging, Savannah, Ga	9- 1
10- 1*	Dredging, Pike, Phila., Pa	9- 1
10- 3*	Dredging, New York	9- 8
10- 3	Breakwater, culvert, Shelbyville, Ind.	9-15
10- 3*	Track material, Panama	9-22
10- 4	Wharf, Lakeport, Ont	9-15
10- 4	Ditches, Angleton, Tex	9-15
10- 4	Breakwater, Goderich, Ont	9-15
10- 6	Drain, Ft. Dodge, Ia	9-22
10- 7*	Ditches, Greenwood, Miss	9-22
10- 7*	Barges, flat boats, St. Louis, Mo.	9-15
10- 8*	Jetty, Galveston, Tex	9-15
10- 8	Storage tanks, Wash., D. C	9-15
10- 8	Breakwater, Fairport, Ohio	9-22
10- 8	Sprinkler system, Boston, Mass	9-22
10-10	Breakwater, Paspebiac, Que	9-22
10-10*	Dredging, Jacksonville, Fla	9-15
10-10*	Dredging, Charleston, S. C	9-15
10-10*	Dredging, Wilmington, N. C	9-15
10-12*	Dredging, etc., Chicago, Ill	9-15
10-12	Ice pier, L'Assomption, Que	9-22
10-12	Wharf, Bic, Que	9-22
10-12	Drainage canals, Cleveland, Miss.	9-22
10-12	Dam trestles, Wheeling, W. Va	9-22
10-14	Dredging, Wilmington, N. C	9-22
10-14*	Dredging, Wilmington, N. C	9-15
10-15*	Subway plans, St. Joseph, Mo	9-22
10-15	Breakwater, Cleveland, O	9-22
10-15	Drainage ditch, levee, Pekin, Ill	9- 8
10-17	Dredging, Boston, Mass	9-22
10-18*	Dredging, Portland, Me	9-22
10-18*	Dredging, Baltimore, Md	9-22
10-18*	Towboat, Wheeling, W. Va	9-22
10-19*	Embankment, Duluth, Minn	9-22
10-19*	Dredging, Boston, Mass	9-22
10-20*	Dredging, Jacksonville, Fla	9-22
10-20*	Dredging, Wilmington, N. C	9-22
10-20*	Subway system, etc., New York	9-15
10-20*	Dredge, etc., Vicksburg, Miss	8-25
10-20*	Dredging, Wash. D. C	9-22
10-21*	Dredging, New York	9-22
10-22	Dry dock pumping equip, Washington, D. C.	9-22
10-27	Collecting wks, Russia (Foreign)	9- 1
10-27*	Subway system, etc., New York	9- 8
10-31	Lighthouse, buoy steamer, Victoria, B. C.	9- 8
10-31	Steamer, Victoria, B. C	9-15
11- 8	Torpedo boat destroyer, Washington, D. C.	9- 8

Examinations.

Bids open.		Noted in issue of
9-26	Examiner Wash., D. C	9- 1
10- 1	Business Mgr., Winnipeg, Man	9-22
10- 5	Inspector, Fort Crockett, Tex	8-25
10- 5	Xylotomist, Washington, D. C	8-25
10- 5	Electrical assistant, Wash., D. C.	9- 1
10- 5	Asst. Chem. Engr., Madison, Wis.	9-15
10-12	Draftsmen, Panama	9-22
10-15	Foreman, Washington, D. C	9-15
10-15	Supt. of construction, Albany, N. Y.	9-22
10-15	Inspector of Masonry, Albany, N. Y.	9-22
10-15	Highway Inspector, Albany, N. Y.	9-22
10-15	Asst. Steam Engr., Albany, N. Y.	9-22
10-15	Forester, Albany, N. Y	9-22
10-19	Clerk-dftsman, Wash., D. C	9-15
10-19	Chemist, Madison, Wis	9-15
10-19	Engineer, Madison, Wis	9-15
10-10	Chem. Engr., Madison, Wis	9-15
10-19	Teacher, Haskell, Kan	9-22
10-19	Laboratory helper, Wash, D. C.	9-22
10-19	Draftsman, Washington, D. C	9-22

Plans and Specifications on File.

The following plans (P.) and Specifications (S.) are on file (for reference only unless otherwise noted) at the office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids open.			Noted in issue of
9-23*	Dredging, Mobile, Ala	(S.)	8-25
9-23*	Riprap, Duluth, Minn	(S)	9- 1
9-24	Mortuary, Brooklyn, N. Y	(S)	9- 8
9-26*	Dredging, Boston, Mass	(S.)	9- 8
9-27*	Dredging, Galveston, Tex	(S.)	9- 1
9-27	Sewers and appurtenances, Woodbury, N. J.	(P & S)	9-15
9-28*	Reservoir site, etc., Ithaca, N. Y.	(P & S)	9-15
9-29*	Dredging, Duluth, Minn	(S)	9- 8
9-29*	Dredging, Baltimore, Md	(S)	9- 1
9-29	Dredging, Norfolk, Va	(S.)	9-15
9-30*	Dredging, Duluth, Minn	(P & S)	9- 8
10- 1	Paving, Boston, Mass	(S.)	9-15
10- 1*	Power plant, Annapolis, Md.	(S.)	8-25
10- 8	Storage tanks, Wash., D. C.	(S.)	9-15
10- 8	Sprinkler system, Boston, Mass	(S.)	9-22
10-10*	Dredging, Jacksonville, Fla	(S)	9-15
10-10*	Dredging, Charleston, S. C.	(S)	9-15
10-15	Officers' quarters, Puget Sound, Wash.	(S.)	9-15
10-22	Drydock pumping equip, Wash., D. C.	(S)	9-22
11- 5	Gas house remodeling, Mare Island, Cal	(S.)	9-15

ADDING MACHINE.—Felt & Tarrant Mfg. Co., Chicago, Ill.; 5½ × 8 ins.; pp. 24; illustrated.

This is the latest edition of the catalog-booklet issued by this concern to show the advantages of rapid mechanical calculation over mental work. The machines manufactured by this company are pictured and described, and there is in addition a discussion of the use of the machine for various mathematical processes. The leaflet closes with a few pages of testimonials from users.

CEMENT DRAIN TILE.—Universal Portland Cement Co., Chicago, Ill.; 6 × 9 ins.; pp. 30; illustrated.

Cement drain tile are coming more and more into use on farms and roads of this country and in consequence of the rapid development there has necessarily been a vast amount of poor work done. In order to offset this poor work the Universal Portland Cement Co. has studied the matter with the view toward giving reasons for bad work and advice for good. These investigations are given in the above pamphlet.

CENTRIFUGAL PUMPS.—R. D. Wood & Co., Philadelphia, Pa.; 6 × 9 ins.; pp. 112; illustrated.

This publication is entitled "Modern Centrifugal Pumps," and in it this company has condensed the development of this type of pumping units which, it has recently been claimed, can be designed to meet any conditions of service for which reciprocating pumps once were thought to be indispensable. The book describes applications, principles of operation and features of design. Half of the book is filled with useful data on the flow of water in pipes, over weirs and through pumps.

PRESSURE AND VACUUM METERS.—Alexander Wright & Co., Ltd., Westminster, England: Precision Instrument Co., Detroit, Mich., Agents; 10½ × 13½ ins.; pp. 16; illustrated.

The pressure and vacuum indicators and recorders designed by Simmance and Abady are described in this catalog. These instruments are for measuring pressure and vacuum on air, steam, gas and water (and other liquid) systems.

A CO_2 recorder, designed by these same engineers, is described in an accompanying pamphlet, together with a discussion of the wastes which can be stopped by keeping a close check on the flue gas from boiler furnaces.

CAR LIGHTING FIXTURES.—Safety Car Heating & Lighting Co., New York; 9 × 12 ins.; pp. 86; illustrated.

The electric car-lighting fixtures manufactured by this company are pictured in an elaborate catalog upon which no expense seems to have been spared to produce a beautiful example of the printer's art. It shows also a comprehensive collection of designs of fixtures, in which may be found representative specimens made after all the principal schools of art. This by no means covers the entire line of fixtures manufactured by this concern, but the designs shown may be taken as indicative of the character of the output. These fixtures are entirely for use in railway coaches, as might be supposed from the very heavy brass-work which gives permanence and stability.

For other Proposal Advertisements see pages 51, 52, 53, 54, 56 of Advertisements and Construction News page 140.

BRIDGE.

Waukesha, Wis.

Sealed proposals will be received by the Board of Public Works on Oct. 3, 1910, at 2 o'clock P. M., for the construction of a reinforced concrete girder bridge. Engineer's estimate, 260 cu. yds. concrete, 18¼ tons reinforcing steel, 372 sq. yds. brick paving.

DEPARTMENT OF THE INTERIOR, Washington, D. C., September 19, 1910.—Sealed proposals, in duplicate, will be received at the Department until 2 o'clock P. M., Monday, October 3, 1910, for the construction of the manual training and arts building, Howard University, Washington, D. C., in accordance with the drawings and specifications, copies of which with form of proposal may be had on application to the Department. A certified check in the sum of $10.00 will be required as a guaranty for the safe return of the plans loaned. The right is reserved to reject any or all bids, waive technical defects, accept one part and reject the other, as the interest of the Government may require. Proposals must be securely enveloped, marked "Proposals for Construction of the Manual Training and Arts Building, Howard University," and to be addressed to the Secretary of the Interior, Washington, D. C. JESSE E. WILSON, Assistant Secretary.

BRIDGE.

Framingham, Mass.

The undersigned, Selectmen of the Town of Framingham in the County of Middlesex and Commonwealth of Massachusetts, in behalf of said Town hereby give notice that until 8 of the clock in the afternoon of Wednesday, Sept. 28, 1910, they will receive sealed proposals for the furnishing of labor and materials for the construction of and completing ready for use, to the satisfaction of the undersigned, and in accordance with plans and specifications therefor prepared by W. C. S. Chamberlain, Engineer, a bridge of reinforced concrete over the Sudbury River in said Framingham.

Said plans and specifications may be examined at the office of the undersigned in Tribune Building in that part of said Framingham called South Framingham between the hours of 9 A. M. and 5 P. M. daily, Sundays excepted, up to and including Sept. 28, 1910. All proposals must be sealed and addressed to the undersigned, must be filed with the Town Clerk of said Framingham at said office, and each proposal must be accompanied by a certified cheque payable to the order of the Town of Framingham for the sum of Two Hundred Dollars, without endorsement or condition of any kind, as a guaranty that the bidder will, if awarded the contract, enter into contract and furnish a bond as hereinafter specified.

The successful bidder, if any, will be required within seven days after the acceptance of the proposal to execute a contract and also to execute and deliver a bond in the sum of Two Thousand Dollars, with such surety, or sureties, as the undersigned may approve, for the faithful performance of all and singular the terms and conditions of the contract; failing to do which, the acceptance of the proposal shall be voidable at the election of the undersigned.

Every bidder must state in his bid the amount of time he will require to complete the work according to said plans and specifications.

The undersigned reserve the right to reject any and all bids that may be offered, and also the right to accept any bid that may be offered.

ROGER H. O'BRIEN,
ELMER E. SPAULDING,
WILLIAM H. WALSH,
Selectmen of Framingham.
Framingham, Mass., Sept. 14, 1910.

ELECTRIC LIGHTING PLANT.

Allentown, N. J., Sept. 15, 1910.

SEALED BIDS addressed to Charles S. Joiner, Borough Clerk, and accompanied by a certified check for two hundred, fifty ($250) dollars made payable to Edward Dilatush, Borough Collector, will be received and publicly opened by the Council of the Borough of Allentown, N. J., at the Borough Hall at 8 o'clock P. M., Wednesday evening, October 19, 1910, for the

CONSTRUCTION of a Municipal Electric Lighting Plant. The work contemplated consists in furnishing and installing one (1) 25-KW. D. C., 3-wire Generator, 250 Volts; one (1) 30-HP. Internal Combustion Engine: one (1) 15-Ampere, 8-hour Storage Battery; 2¾ miles Transmission Lines; Street Lights, Switch Board; Shafting and Equipment within the Power House.

PLANS AND SPECIFICATIONS and Form of Contract may be examined at the office of the Borough Clerk, Allentown, N. J., or at these offices of the Engineer, viz; 220 Broadway, New York City; 46 Park St., Bordentown, N. J.; 1002 Drexel Building, Philadelphia, Pa.

Borough Council expressly reserves the right to reject any or all bids.

A. ROBINSON, Mayor.
CHARLES S. JOINER, Clerk.
W. W. YOUNG, Consulting Engineer.

FORT MONROE, VA., Sept. 20, 1910.—Sealed proposals, in triplicate, will be received until 10 A. M., October 11, 1910, for the repairs to Field Officer's Quarters No. 93, at Ft. Monroe, Va., including repair work for construction, plumbing, heating, electrical wiring and fixtures. Bidders on proposals must state name of manufacturers supplying them with material. Information on application. The United States reserves the right to accept or reject any or all proposals or any part thereof. ERNEST R. TILTON, Capt. and Q. M., U. S. A., Constg. Q. M.

NOTICE TO STRUCTURAL ENGINEERS.

COMPETITIVE PLANS FOR VIADUCTS OR SUBWAYS.

St. Joseph, Mo.

Competitive plans will be received by the Board of Public Works of the City of St. Joseph, Missouri for the construction of a viaduct or subway on south Sixth Street to cross railroad tracks north and south of the Union Passenger Station in the City of St. Joseph, Missouri.

The plans to be in shape of general sketches showing mode and system of construction, outline specifications and a safe conservative estimate of the cost, all to comply with the requirements of the Charter of the City of St. Joseph, Missouri.

All plans to be filed with the Clerk of the Board of Public Works on or before October 15th, 1910, at 11 o'clock a. m.

Competitors will state terms for service in case their plans are accepted by the Board. Terms to include all surveys, plans, specifications and supervision.

The right is reserved to reject any or all bids.

THE BOARD OF PUBLIC WORKS,
By ALFRED MEIER, President.
Attest: GEO. F. BARNES, Clerk.

RESERVOIR.

Binghamton, N. Y.,
September 15, 1910.

Sealed proposals for constructing a 5,000,000 gallon distribution reservoir in Binghamton, N. Y., will be received by the Water Commissioners at the City Water Office, Binghamton, N. Y., until 10 o'clock, Tuesday, November 1, 1910.

The work involves about 2,900 cubic yards of concrete, plain and reinforced, and about 50,000 cubic yards of excavation.

Each bid must be accompanied by a certified check for two thousand ($2,000) dollars.

Envelopes containing bids shall be marked "Proposal."

A bond of $20,000 will be required.

Plans may be seen, and specifications, form for bond and contract, and proposal blanks obtained at the City Water Office, Binghamton, N. Y.

Plans and specifications may be had on deposit of twenty dollars ($20), the said deposit to be refunded upon the return of the copies in good condition.

The right is reserved to reject any and all bids, or any part of a bid.

Board of Water Commissioners,
JOHN D. DAVIDSON,
Secretary.

PAVING.

Birmingham, Ala.

Sealed proposals will be received at the office of the City Engineer of Birmingham, Alabama, until 11 o'clock A. M., Wednesday, October 5th, 1910, for certain brick paving, street grading, retaining walls, etc. Specifications can be obtained from the undersigned. The right is reserved to reject any or all proposals.

MAURY NICHOLSON,
City Engineer.

U. S. ENGINEER OFFICE, Wheeling, W. Va., September 17, 1910.—Sealed proposals for constructing and delivering steel-hull, stern-wheel towboat General Craighill will be received at this office until 11 a. m. (Eastern time), October 18, 1910, and then publicly opened. Information on application. F. W. ALTSTAETTER, Capt., Engrs.

U. S. ENGINEER OFFICE, Wilmington, N. C., September 20, 1910.—Sealed proposals for dredging in Trent River, New River, and Waterways to Beaufort, N. C., will be received at this office until 12 M., October 20, 1910, and then publicly opened. Information on application. EARL I. BROWN, Capt., Engrs.

U. S. ENGINEER OFFICE, Room 802, Army Building, 39 Whitehall Street, New York, N. Y., September 20, 1910.—Sealed proposals for dredging in Channel north of Shooters Island, N. Y., and N. J., will be received at this office until 12 M., October 21, 1910, and then publicly opened. Information on application. WM. T. ROSSELL, Colonel, Engineers.

U. S. ENGINEER OFFICE, Jacksonville, Fla., Sept. 20, 1910.—Sealed proposals for dredging in Caloosahatchee River and entrance, Florida, will be received at this office until 12 M., Oct. 20, 1910, and then publicly opened. Information on application. GEO. R. SPALDING, Capt., Engrs.

ELECTRICAL APPARATUS.

Canby, Minn.

Proposals will be received at the office of the City Recorder, Canby, Minn., up to Nov. 3d, 1910, at 8 o'clock P. M., for certain Electrical equipment for use in operating a sewage pump. Detailed specifications are on file with the Recorder and include a 15 K. W. A. C. generator, switch board, 7½ HP. motor, wire, etc. Copies of specifications may be obtained from the Recorder. The right is reserved to reject any and all bids.

JOHN S. DO
City Engineer.

PAVING.

Decatur, Ind.

The city of Decatur, Indiana, will receive bids for the improvement of approximately two miles of street pavement, on the 27th day of September, 1910. Further information and copy of specifications can be had by addressing the undersigned.

H. M. DE VOSS, City Clerk.

OFFICE CONSTRUCTING QUARTERMASTER, Fort Sill, Okla., Sept. 15, 1910.—Sealed proposals, in triplicate, will be received at this office until 10 o'clock A. M., Oct. 15, 1910, and then publicly opened, for grading roads and constructing concrete walks in the new Artillery Post, Fort Sill, Okla. Specifications, blueprints and further information furnished on application to the undersigned. Certified check for $5 will be required to insure return of plans, etc. U. S. reserves the right to accept any or reject all proposals. Proposals should be indorsed "Proposals for Roads and Walks" and addressed to Capt. DAVID L. STONE, U. S. A., Constructing Quartermaster.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., Sept. 14, 1910.—Sealed proposals will be received in this office until 3 o'clock P. M. on the 24th day of October, 1910, and then opened, for the construction, complete (including plumbing, gas piping, heating apparatus and electric conduits and wiring) of the U. S. Post Office at Willmar, Minnesota, in accordance with drawings and specification, copies of which may be obtained from the Custodian of site at Willmar, Minn., or at this office at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect.

U. S. ENGINEER OFFICE, 920 17th St., N. W., Washington, D. C., September 20, 1910.—Sealed proposals for dredging in James River, Va., will be received at this office until 12 M., October 20, 1910, and then publicly opened. Information on application at U. S. Engr. Office, 28 N. 9th St., Richmond, Va. W. C. LANGFITT, Lt. Col., Engrs.

U. S. ENGINEER OFFICE, Duluth, Minn., Sept. 19, 1910.—Sealed proposals for furnishing and placing rock in the foundation embankment for the breakwater extension at Marquette, Mich., will be received here until noon, Oct. 19, 1910, and then publicly opened. Information on application. GRAHAM D. FITCH, Lt. Col., Engrs.

U. S. ENGINEER OFFICE, Room 309, Custom House, Baltimore, Md., Sept. 15, 1910.—Sealed proposals for dredging in Patapsco River, Md., will be received at this office until one o'clock P. M., Oct. 18, 1910, and then publicly opened. Information on application. THOS. L. CASEY, Col., Engrs.

U. S. ENGINEER OFFICE, 537 Congress St., Portland, Me., September 17, 1910.—Sealed proposals for dredging in Pepperells Cove, Me., will be received at this office until 12 M., October 18, 1910, and then publicly opened. Information on application. GEO. A. ZINN, Lieut. Col., Engrs.

U. S. ENGINEER OFFICE, Boston, Mass., Sept. 19, 1910.—Sealed proposals for dredging in Lynn Harbor, Mass., will be received here until 12 M., Oct. 19, 1910, and then publicly opened. Information on application. FREDERIC V. ABBOT, Col., Engrs.

Situations Wanted

EXPERIENCED FOREMAN all kinds of construction work; best references; can supply laborers if necessary. Address "Z. 3," Engineering News, New York 12-1t

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Miscellaneous Wants

WANTED.

Engineering Draftsmen

with experience in Hydraulic, Reinforced Concrete, and Mill Construction work. Write to H. S. FERGUSON, Millinocket, Maine, stating age, education, and experience, in detail, and salary expected. 12-1t